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THE AMERICAN SOCIETY OF
MECHANICAL ENGINEERS

LIST OF MEMBERS

GEOGRAPHICALLY ARRANGED
WITH ALPHABETICAL INDEX

CORRECTED TO JUNE 15, 1909

New York
29 West 39th Street
August, 1909

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Engineering
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To know if the Society has members residing in any city, town or country, consult the geographical list (p. 16) which is arranged alphabetically under countries, states and towns.

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OFFICERS AND COUNCIL

1909

President, JESSE M. SMITH

Vice-Presidents

L. P. BRECKENRIDGE
GEO. M. BOND
FRED J. MILLER
R. C. CARPENTER
ARTHUR WEST
F. M. WHYTE

Past Presidents

AMBROSE SWASEY
FRED. W. TAYLOR
JOHN R. FREEMAN
F. R. HUTTON
M. L. HOLMAN

Managers

G. M. BASFORD
HENRY G. STOTT
A. L. RIKER
H. L. GANTT
WM. L. ABBOTT
I. E. MOULTROP
ALEX. C. HUMPHREYS
W. J. SANDO

Treasurer, WILLIAM H. WILEY

Honorary Secretary, F. R. HUTTON

Chairman of the Finance Committee, ARTHUR M. WAITT

Secretary, CALVIN W. RICE

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EXECUTIVE COMMITTEE OF THE COUNCIL

JESSE M. SMITH — F. R. HUTTON
ALEX. C. HUMPHREYS — FRED J. MILLER
F. M. WHYTE

STANDING COMMITTEES

FINANCE

ARTHUR M. WAITT, *Chairman* — GEO. J. ROBERTS
EDWARD F. SCHNUCK — ROBERT M. DIXON
WALDO H. MARSHALL

HOUSE

HENRY S. LOUD, *Chairman* — BERNARD V. SWENSON
W. C. DICKERMAN — FRANCIS BLOSSOM
EDWARD VAN WINKLE

LIBRARY

JOHN W. LIEB, JR., *Chairman* — AMBROSE SWASEY
H. H. SUPLEE — LEONARD WALDO
CHAS. L. CLARKE

MEETINGS

WILLIS E. HALL, *Chairman* — L. R. POMEROY
WM. H. BRYAN — CHARLES E. LUCKE
H. DE B. PARSONS

MEMBERSHIP

HENRY D. HIBBARD, *Chairman* — FRANCIS H. STILLMAN
CHARLES R. RICHARDS — GEORGE J. FORAN
HOSEA WEBSTER

PUBLICATION

ARTHUR L. WILLISTON, *Chairman* — H. F. J. PORTER
D. S. JACOBUS — H. W. SPANGLER
GEO. I. ROCKWOOD

RESEARCH

JAMES CHRISTIE — RICHARD H. RICE
R. C. CARPENTER — CHAS. B. DUDLEY
W. F. M. GOSS, *Chairman*

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SPECIAL COMMITTEES

1909

On a Standard Tonnage Basis for Refrigeration

D. S. JACOBUS — G. T. VOORHEES
A. P. TRAUTWEIN — PHILIP DE C. BALL
E. F. MILLER

On Society History

JOHN E. SWEET — H. H. SUPLEE
CHAS. WALLACE HUNT

On Constitution and By-Laws

CHAS. WALLACE HUNT, *Chairman* — F. R. HUTTON
G. M. BASFORD — D. S. JACOBUS
JESSE M. SMITH

On Conservation of Natural Resources

GEO. F. SWAIN, *Chairman* — L. D. BURLINGAME
CHARLES WHITING BAKER — M. L. HOLMAN
CALVIN W. RICE

On International Standard for Pipe Threads

E. M. HERR, *Chairman* — GEO. M. BOND
WILLIAM J. BALDWIN — STANLEY G. FLAGG, JR.

On Thurston Memorial

ALEX. C. HUMPHREYS, *Chairman* — CHAS. WALLACE HUNT
R. C. CARPENTER — J. W. LIEB, JR.
FRED J. MILLER

On Hudson-Fulton Celebration

GEO. W. MELVILLE — M. L. HOLMAN
JESSE M. SMITH

On Standards for Involute Gears

HUGO BILGRAM — GAETANO LANZA
C. R. GABRIEL — WILFRED LEWIS, *Chairman*
E. R. FELLOWS

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SOCIETY REPRESENTATIVES

1909

On John Fritz Medal

HENRY R. TOWNE — F. R. HUTTON
AMBROSE SWASEY — CHARLES WALLACE HUNT

On Board of Trustees United Engineering Society Building

CHAS. WALLACE HUNT — F. R. HUTTON
FRED J. MILLER

Library Conference Committee

J. W. LIEB, JR., CHAIRMAN OF THE LIBRARY COMMITTEE OF THE AM. SOC. M. E.

On National Fire Protection Association

JOHN R. FREEMAN — IRA H. WOOLSON

On Joint Committee on Engineering Education

ALEX. C. HUMPHREYS — FRED. W. TAYLOR

On Government Advisory Board on Fuels and Structural Materials

GEO. H. BARRUS — P. W. GATES
W. F. M. GOSS

On Advisory Board National Conservation Commission

GEO. F. SWAIN — JOHN R. FREEMAN
CHAS. T. MAIN

On Council of American Association for the Advancement of Science

ALEX. C. HUMPHREYS — FRED J. MILLER

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GENERAL INFORMATION

LOCATION

The headquarters of The American Society of Mechanical Engineers are in the magnificent Engineering Societies' Building, 29 West 39th Street, New York, given by Andrew Carnegie as a home for the American Institute of Mining Engineers, The American Society of Mechanical Engineers and the American Institute of Electrical Engineers. Other kindred societies have offices in the building and share in the privileges of the auditorium for meeting purposes. The building is 13 stories high and besides the headquarters and offices of the different societies has lecture halls and assembly rooms with seating capacities of from 200 to 1000 persons each and a library occupying the two top floors.

MEETINGS

The Society holds monthly meetings in New York and a Spring Meeting in some other city. The Annual Meeting is always held in New York the first week in December.

The Council and Meetings Committee are pleased to authorize the holding of local meetings in places other than New York and in response to requests from members meetings have been held in several cities.

SECTIONS AND BRANCHES

The Council has also taken action permitting the formation of professional sections and student branches affiliated with the Am. Soc. M. E. A successful Gas Power Section has been organized and student branches in several colleges have been established.

COMMITTEES

The activities of the Society are conducted through standing committees, under direction of the Council. Special committees have also been appointed from time to time to investigate and report upon engineering questions referred to them.

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PUBLICATIONS

The Society publishes The Journal, containing the proceedings of the Society, monthly, except in July and August. Two extra numbers, Mid-October and Mid-November, are issued, making twelve numbers a year.

In The Journal are published the papers to be presented at meetings, discussions and other matters of Society interest, as well as announcements and reports of meetings of other societies.

Transactions, a volume published yearly, contains the papers of permanent interest previously published in The Journal.

A Year Book, containing a list of members alphabetically arranged, is issued in February of each year.

A Pocket List, geographically arranged, is published in August.

THE LIBRARY

The Library of the Engineering Societies, which contains the individual libraries of The American Society of Mechanical Engineers, the American Institute of Mining Engineers, and the American Institute of Electrical Engineers, is maintained as a free public reference library for the use of the engineering profession. It contains over 50,000 volumes and comprises one of the finest collections of engineering and scientific publications in the world. The library is open from 9 a.m. to 9 p.m., with trained librarians in attendance.

THE JOHN FRITZ MEDAL

The John Fritz Medal is awarded by the four national engineering societies, the American Society of Civil Engineers, the American Institute of Mining Engineers, The American Society of Mechanical Engineers and the American Institute of Electrical Engineers, for notable scientific or industrial achievement. It was established in 1902, by professional associates and friends of John Fritz, to perpetuate the memory of his achievements in industrial progress.

APPLICATIONS FOR MEMBERSHIP

The standard blank forms upon which the Constitution provides that all applications for membership in the

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Society shall be written will be mailed to any address upon request made to the Secretary.

This application when properly filled out should be returned to the Secretary, who will then communicate with the references of the applicant, and will submit to the Council the application and the replies.

CALVIN W. RICE, *Secretary*
29 West 39th St., New York
Telephone 4600 Bryant
Cable Address, Dynamic, New York

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EXTRACTS FROM CONSTITUTION AND BY-LAWS

OBJECT OF THE SOCIETY

C1 The title of this Society is "THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS."

C2 The object of the Society is to promote the Arts and Sciences connected with Engineering and Mechanical Construction. The principal means for this purpose shall be the holding of meetings for the reading and discussion of professional papers, and for social intercourse; the publication and distribution of its papers and discussions; and the maintenance of an Engineering Library.

MEMBERSHIP

C6 The membership of the Society shall consist of Honorary Members, Members, Associates and Juniors. Honorary Members, Members and Associates are entitled to vote and to hold office. Juniors shall not be entitled to vote nor to be officers of the Society, but shall be entitled to the other privileges of membership.

C8 Honorary Members shall be persons of acknowledged professional eminence, and their number shall not exceed 25 at any time.

C9 A Member shall be 30 years of age or over. He must have been so connected with Engineering as to be competent, as a designer or as a constructor, to take responsible charge of work in his branch of engineering, or he must have served as a teacher of engineering for more than five years.

C10 An Associate shall be 26 years of age or over. He must either have the other qualifications of a Member or be so connected with engineering as to be competent to take charge of engineering work, or to coöperate with engineers.

C11 A Junior shall be 21 years or over. He must have had such engineering experience as will enable him to fill a responsible subordinate position in engineering work, or he must be a graduate of an engineering school.

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C 12 The rights and privileges of every Honorary Member, Member, Associate, and Junior shall be personal to himself, and shall not be transferable or transmissible by his own act or by operation of law.

B 1 A candidate for admission to the Society as a Member or as an Associate must make application on a form approved by the Council, upon which he shall write a statement giving a complete account of his qualifications and engineering experience, and an agreement that he will, if elected, conform to the Constitution, By-Laws and Rules of the Society. He must refer to at least five Members or Associates to whom he is personally known.

B 3 A candidate for admission to the Society as a Junior must make application in the same manner as provided for Members, except that he must refer to not less than three Members or Associates to whom he is personally known.

INITIATION FEES AND DUES

C 19 The initiation fee for membership in each grade shall be as follows:

For Member $25.00
For Associate 25.00
For Junior 15.00

C 20 A Junior, on promotion to any other grade of membership, shall pay an additional fee of $10.

C 21 The annual dues for membership in each grade shall be as follows:

For Member $15.00
For Associate 15.00
For Junior ..... 10.00 for the first six years of his membership and thereafter the same as for an Associate.

B 18 The initiation fee and annual dues of the first year shall be due and payable on notice of election to membership, and upon that payment the member will be entitled to the Transactions for the year. Thereafter the annual dues shall be due and payable on the first day of October in each year.

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SECTIONS OF THE SOCIETY

R 20 A professional section of The American Society of Mechanical Engineers may, with the approval of the Council, be organized for the consideration of any engineering, scientific, or professional topic, provided that a number satisfactory to the Council, of members of The American Society of Mechanical Engineers, unite in making written request for such an organization. Such section shall be designated as "the ..... Section of The American Society of Mechanical Engineers," the blank being filled by the topic specialized.

R 25 Engineers and others not members of The Am. Soc. M. E., but desiring to participate in meetings of the section, may enroll themselves as affiliates as heretofore provided with the approval of the executive committee of the section. Such affiliates shall have the privilege of presenting papers and taking part in the discussions. They shall pay $5 per annum, which shall be due and payable, in advance, on October 1 of each year of their enrollment, and shall thereby be entitled to receive the Proceedings of the Society as they are issued month by month, for a period covered by their dues.

The following rules with respect to Student Branches, among students of engineering and technical schools, have been added for guidance of the organization of branches:

R 27 The name of this Association shall be "..... ..... Affiliated with The American Society of Mechanical Engineers;" or, "the ..... Student Section of The American Society of Mechanical Engineers."

R 28 The basis of such an affiliation shall be the independence, autonomy and self-control of each affiliated body under its own by-laws; subject to such limitation as may be set by the Council.

R 30 The American Society of Mechanical Engineers will furnish monthly issues of The Journal to all members of affiliated organizations who are not members of The American Society of Mechanical Engineers, upon the payment by each of two dollars per year. The American Society of Mechanical Engineers will also furnish to the

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secretary of each affiliated body a certain number of extra copies of advance papers for use at its meetings, the number furnished to be agreed upon in each case.

EMBLEMS, ABBREVIATIONS, GIFTS

B 42 The emblem of each grade of membership approved by the Council shall be worn by those only who belong to that grade. The official stationery shall be used only by Officers and Committees of the Society.

B 43 The abbreviation of the titles of the various grades of membership approved by the Society are as follows:

For Honorary Members, Hon. Mem. Am. Soc. M. E.
For Members, Mem. Am. Soc. M. E.
For Associates, Assoc. Am. Soc. M. E.
For Juniors, Jun. Am. Soc. M. E.

B 49 Gifts or bequests to the Society for the conduct of research or investigation shall be expended under the direction of the Council and shall be kept separate from other Society funds.

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HONORARY MEMBERS IN PERPETUITY

ALEXANDER LYMAN HOLLEY, Deceased Founder of the Society.

HENRY ROSSITER WORTHINGTON, Deceased Founder of the Society.

HONORARY MEMBERS

(In order of dates of election)

DWELSHAUVERS-DERY, V. (1886), Prof. Emeritus, Univ. of Liege, 4 Quai Marcellus, Liege, Belgium.

EIFFEL, Gustave (1889), 1 Rue Rabelais, Paris, France.

PORTER, Charles T. (1880; 1890), Manager, 1882-1885; Vice-President, 1886-1888; Montclair, N. J.

LÉAUTÉ, Henri (1891), Member of Academy, Boulvd. de Courcelles, 20, Paris, France.

ISHERWOOD, Benj. Franklin (1894), Ch. Engr., Ret., Rank of Rear Adm., U. S. N., 111 E. 36th St., New York, N. Y.

ARROL, Sir Wm. (1895), Engr., Dalmarnock Iron Wks., 85 Preston St., Glasgow, N. B., and Seafield, Ayr, Scotland.

WESTINGHOUSE, Geo. (1897), Pittsburg, Pa.

UNWIN, Wm. Cawthorne (1898), 29 Palace Gate, Kensington, London, England.

FRITZ, John (1881; 1900), Vice-President, 1882-1884; President, 1895-1896; Cons. Engr., 155 Market St., Bethlehem, Pa.

WHITE, Sir Wm. H., K. C. B. (1900), Naval Arch., 8 Victoria St., Westminster, and Cedarcroft, Putney Heath, London, S. W., England.

FOX, Sir Douglas (1900), Head of Firm, Messrs. Sir Douglas Fox and Partners, Cons. Civil Engrs., Cross Keys House, 56 Moorgate St., London, E. C., and Kippington Grange, Sevenoaks, Kent, England.

SWEET, John E. (1880; 1904), Manager, 1880-1883; Pres., 1883-1884; Pres., Straight Line Engine Co., and 114 Merriman Ave., Syracuse, N. Y.

EDISON, Thomas Alva (1880; 1904), West Orange, N. J.

CARNEGIE, Andrew (1890; 1907), 2 E. 91st St., New York, N. Y.

BRASHEAR, John A. (1891; 1908), Manager, 1899-1902; Mfr. Astronomical and Physical Instruments, 1954-1964 Perrysville Ave., Pittsburg, Pa.

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GEOGRAPHICAL LIST OF MEMBERS

UNITED STATES

ALABAMA

Auburn

WILMORE, John J. (1893), Dean Sch. of Engrg., Alabama Poly. Inst.

Bessemer

FAULL, Richard (1907), Mech. Engr., Tenn. Coal, Iron & R. R. Co., and 1501 Minnesota Ave.

Birmingham

CROCKARD, Frank H. (1909), V. P. and Genl. Mgr., Tenn. Coal, Iron & R. R. Co.

ENSLEN, Eugene Flynn, Jr. (Junior, 1904), Elec. and Mech. Engr., 2737 Highland Ave.

GROVER, Marcus A. (Junior, 1903), Cons. Engr., Box 590.

HARDIE, William (1900), Pres., Hardie-Tynes Mfg. Co., and 2220 Sycamore St.

HILL, Robert J. (Associate, 1904), Ch. Mech. Engr., 819 First Natl. Bank Bldg., and 816 Sheridan Road, Wilmette, Ill.

JONES, John W. S. (1901), Pres. and Treas., Birmingham Sanitary Bed & Mfg. Co., Cor. 9th Ave. and 40th St., and 1914 8th Ave., N.

MOON, Hartley Allen (Associate, 1908), Ch. Draftsman, Continental Gin Co.

RYDING, Herbert Charles (1900), Asst. to V. P. and Genl. Mgr., Tenn. Coal, Iron & R. R. Co., and 1400 S. 19th St.

SCHAEFER, John V. (Junior, 1891), Pres., Schaefer Mfg. Co.

WELLS, Edward C. (1904), Supt., Hardie-Tynes Mfg. Co., and *for mail*, 1618 14th Ave., S.

Dothan

STEELE, Ben Wadley (Junior, 1907), 2d V. P., and Asst. Mgr., Atlanta & St. Andrews Bay Ry.

Ensley

CAINE, Wm. Phillips (1899; Associate, 1904), Steam Expert, Tenn. C. I. of R. R. Co., and *for mail*, P. O. Box 27.

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Sheffield

RUST, Edwin Gray (1901), Pres., Sheffield Coal and Iron Co.

University

SIBLEY, Frederick H. (1908), Sch. of Mech. Engrg., Univ. of Ala.

ALASKA

Nome

GIBSON, Arthur (1892), Mech. and Civil Engr., 12-14 First Ave., and *for mail*, P. O. Box 200.

ARIZONA

El Tiro, Pima Co.

VAN DEINSE, A. F. (Junior, 1905), Mech. Engr., El Tiro Copper Co.

Morenci

CHESTER, C. P. (Associate, 1908), Supt., Morenci Water Co.

Tucson

BLAKE, Edwin Mortimer (1907), Cons. Engr., Prof. Mech. Engrg., Univ. of Arizona.

CORY, Harry Thomas (1893; 1905), Asst. to Pres., Cananea, Yaqui River & Pacific R. R., Genl. Mgr., California Development Co., Calexico, Cal., Genl. Mgr., La Sociedad de Irrigacion y Terrenos de la Baja, California, Mexicali, Lower Calif., Mexico.

GOODRICH, Robert R. (1903), Prof. Metallurgy, Univ. of Arizona.

ARKANSAS

Fayetteville

WILSON, Birton N. (1904), Prof. Mech. Engrg., Univ. of Arkansas, and *for mail*, 241 College Ave.

Little Rock

FORDYCE, John R. (1899), Pres., Thomas-Fordyce Mfg. Co., and 2115 Broadway.

CALIFORNIA

Berkeley

LE CONTE, Joseph Nisbet (1906), Asst. Prof. Mech. Engrg., Univ. of Cal., Mechanics Bldg., and 19 Hillside Court.

NORBOM, John O. (1900), 2628 College Ave.

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Los Angeles

BRETT, Henry E. (1902), Cons. Engr., 114 North Spring St.

CLARK, Herbert Hamilton (1908), Mgr., Chas. C. Moore & Co., Engrs., 321 L. A. Trust Bldg., and 2326 Scarff St.

GARRETT, John Anthony (Junior, 1907), Gas and Mech. Engr., Fairbanks, Morse & Co., 423-9 E. 3d St., and 1554 Winfield St.

STREETER, Lafayette P. (1902; Associate, 1903), Air Brake Inspector, So. Pac. Co., and *for mail*, P. O. Box 1152, Pasadena.

STEWART, Geo. W. (Junior, 1905), Mchy. Salesman, Baker & Hamilton, 136 N. Los Angeles St., and *for mail*, 204 N. St. Louis St.

TRACY, Theron H. (1902), Pres., Tracy-Devereaux Co., 211-15 Kerckhoff Bldg.

WARRINGTON, James N. (1884; 1885), 617 S. Grand Ave.

Oakland

ELLIOTT, Elmer G. (1907), Constr. Engr., Selby Smelting & Lead Co., and 1067 Oak St.

Pasadena

WRIGHT, Ernest N. (1890), Cons. Engr.

Point Loma

TYBERG, Oluf (1898).

Sacramento

BROWNING, Charles, Jr. (1905), Foreman of Laboratory, Southern Pacific Co., and *for mail*, 2107 22nd St.

CRANSTON, Robert E. (1907), Mgr., Ashburton Mining Co., Mgr. Marysville Dredging Co., Physicians Bldg., and 1420 O St.

San Bernardino

WHITEFORD, James F. (1908), Betterment Supervisor, A. T. & S. F. R. R., and *for mail*, 281 I St.

San Francisco

ATKINS, David Fowler (1907), Inspc. Mech. and Elec. Engr., U. S. P. O. and Court House.

AUE, Jos. E. (1899), Pacific Gas and Elec. Co., Bayshore Dist.

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San Francisco (Continued)

BAUM, Frank G. (1906), Cons. Elec. and Hydraulic Engr., 1404 Chronicle Bldg., and 3004 College Ave., Berkeley.

BRAUN, Carl F. (Junior, 1907), Engr., Standard Elec. Wks., 121 New Montgomery St., and 118 Gough St.

BRITTON, John A. (1907), V. P. and Genl. Mgr., Pacific Gas & Elec. Co., and 925 Franklin St.

BROWN, John Quincy (1906), Asst. Genl. Mgr. and Engr., Oakland Traction Co., and Oakland & San José Railway, Oakland.

CATTELL, William A. (1901), 2709 Sacramento St.

DAVOL, George K. (1904), Mech. Engr., 503 Market St.

DICKIE, Geo. W. (1892), Manager, 1895-1898; Room 722, Marvin Bldg., 24 California St., and 750 Ashbury St.

DOBLE, Wm. A. (1891), Pres., Abner Doble Co., Fremont and Howard Sts., and 2611 Broadway.

DUNN, Kingsley G. (Associate, 1907), V. P., Hunt, Mirk & Co., Inc., 141 2nd St.

ECKART, W. R. (1882), Vice-Pres., 1883-1885; Cons. Engr., 3014 Clay St.

FORSYTH, Robert (1901), Cons. Engr., 1020 Merchants Exch., and *for mail*, 1996 Green St.

HENES, Louis G. (Junior, 1903), Ry., Industrial and Contractors' Equipment, Room 731, Monadnock Bldg., and Key Route Hotel, Oakland.

HENRY, George J., Jr. (1901), Ch. Engr. Pelton Water Wheel Co., 19th and Harrison Sts., and 3999 Clay St.

HOLMES, George Lewis (1899; 1906), Cons. Engr., Holmes & Black, McNutt-Kahn Bldg., First and Folsom Sts., and *for mail*, 412 Edwards St., Oakland.

HOLT, Chas. Parker (Associate, 1906), V. P., Holt Mfg. Co., and V. P., Holt Bros. Co., 304 Balboa Bldg., also 2600 Vallejo St.

HOPPS, John Herbert (1905), Cons. Engr., 503 Market St., and Ross, Marin Co.

HUDSON, Robt. Allan (Junior, 1909), Partner, Hunter & Hudson, Engrs., 746 Monadnock Bldg.

HUNT, Andrew M. (1895), Cons. Engr., Union Trust Bldg.

JOHNSON, Paul Franklin (1905), Mgr., San Francisco Office, Johnson Service Co., 813 St. Clair Bldg.

JONES, Edward C. (1901), Ch. Engr., Gas. Dept., Calif. Gas & Elec. Corp., and San Francisco Gas & Elec. Co., 925 Franklin St., and *for mail*, 2031 Vallejo St.

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San Francisco (Continued)

KRAUS, Julius (Junior, 1891), Pelton Water Wheel Co., and *for mail*, P. O. Box 57, Burlingame.

LARDNER, Henry A. (1901), Mgr., J. G. White & Co. Inc., Alaska-Commercial Bldg.

LEE, Francis V. T. (1907), Asst. Genl. Mgr., Pacific Gas & Elec. Co., 445 Sutter St., and *for mail*, 59th St., E. of College Ave., Oakland.

LELAND, Wm. Emmons (1904), Cons. Engr., 939 Merchants Exch.

LIBBY, Malcolm M. (1902; Associate, 1905), Room 302, Atlas Bldg., 604 Mission St.

LINDQUIST, Edward W. (1902; 1905), Allis-Chalmers Co., 599 Mission St.

MOORE, R. S. (1892), Manager, 1901-1904; Life Member; Prop., Moore & Scott Iron Wks., Main and Howard Sts.

MORRIN, Thos. (1897), Cons. Mech. Engr., Balboa Bldg., and 1358 Jackson St.

NAPHTALY, Sam L. (1907), City Elec. Co., 347 Grant Ave., and *for mail*, 1770 Pacific Ave.

NEWCOMB, Chas. L., Jr. (Associate, 1908), Sales Engr., Nevada Mchy. & Supply Co., 386 Grant Ave., and *for mail*, 66 Geary St.

NOBLE, Patrick (1892), Pres., Pacific Rolling Mill Co., 908 Crocker Bldg., and 711 Post St.

NOYES, Wm. S. (1896), Min. Engr., 819 Mills Bldg.

PAINE, Henry E. (Junior, 1906), Mgr., Elec. Dept., Hughson & Merton, Inc., 438 Market St., and *for mail*, 505 Homer Ave., Palo Alto.

PERCY, Earl N. (Junior, 1907), Engr., Imperial Gas Eng. Co., and *for mail*, 3570 Clay St.

RIX, Edward Austin (1896), Pres. and Mgr., Rix Compressed Air & Drill Co., 371 Market St.

ROUVEL, George William (1907), Genl. Supt., Santa Cruz Portland Cement Co., Standard Portland Cement Co., Crocker Bldg.

SMALL, H. J. (1884), V. P., 1893-1895; Genl. Supt. M. P., Southern Pacific Co., Flood Bldg., and *for mail*, 2430 Broadway St.

STILLMAN, Howard (1895), Mech. Engr. and Engr. of Tests, S. Pac. Co., 1180 Flood Bldg., and S. W. Cor. Piedmont Ave. and Haste St., Berkeley.

STUT, John C. H. (1892), Cons. Mech. Engr., 417 Montgomery St., and 865 Adeline St., Oakland.

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San Francisco (Continued)

TERWILLIGER, H. L. (Associate, 1901), Sales Mgr., Harron, Rickard & McCone, 461 Market St., and *for mail*, 2865 Devisadero St.

WEYMOUTH, Clarence R. (1904; 1907), Mech. Engr., in charge Engrg. Dept., Chas. C. Moore & Co. Engrs., 99 First St., and 2325 Blake St., Berkeley.

WIELAND, Charles F. (1901), Cons. Engr., 911 Mut. Savings Bank Bldg., and Monte Rosa Terrace, Garber St., Berkeley.

WILSON, Clarence C. (Junior, 1900), Mgr., Northern Branch Western Gas Eng. Co., 461 Market St., and 2125 Parker St., Berkeley.

WRIGHT, Wm. Quinby (1908), Ch. Engr., Northern Cal. Mining Co., Marvin Bldg., 24 California St., and Sansalito.

San Diego

BACON, John Lord (Junior, 1899), Engr. and Supt. of Constr., R. P. Shields & Son, 605 Scripps Bldg., and *for mail*, 3435 D St.

Santa Barbara

WHITTEMORE, John R. (1902), 435 E. Pedregosa St.

Stanford University P. O.

DURAND, Wm. F. (1883), Prof. Mech. Engrg., Stanford Univ.

ECKART, W. R., Jr. (1904), Asst. Prof. Mech. Engrg., Stanford Univ., and *for mail*, 1125 Ramona St., Palo Alto.

MARX, Guido Hugo (1901), Prof. Mch. Design, Stanford Univ., and 356 Lincoln Ave., Palo Alto.

RYAN, Harris J. (1896), Prof. Elec. Engrg., Stanford Univ.

COLORADO

Boulder

WALLACE, Jacob H. (Associate, 1908), Asst. Prof. Drawing, Univ. of Colo., and *for mail*, 1313 7th St.

Colorado Springs

KREBS, A. Sonnin (1901; Associate, 1905), Mech. Engr., 1327 N. Nevada Ave.

Denver

BAKER, Frank D. (1893), Mech. Engr., Am. S. & R. Co., 827 Symes Bldg., and *for mail*, 3221 Franklin St.

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Denver (Continued)

BAYLE, Emile J. (1907), Genl. Engr., Amer. Beet Sugar Co., and *for mail*, 1530 16th St.

BUCHANAN, A. W. (1890; 1904), Cartwright Investment Co., 729 17th St.

COMSTOCK, Charles Worthington (1908), State Engr. of Colo., Capitol Bldg., and 76 Grant St., and *for mail*, 213 Boston Bldg.

DODDS, William B. (Junior, 1907), Denver Gas & Elec. Co., 17th and Tremont Sts.

HAMPSON, C. M. (Junior, 1902), Pres., Hampson-Fielding Engrg. Co., 1711 Tremont St., and *for mail*, 2098 Ogden St.

HUTCHINSON, Arthur H. (1899), C. W. Kettering Mercantile Co., and *for mail*, 1617 Wazee St.

KNOOP, Theo. M. (Junior, 1904), Mine & Smelter Supply Company, P. O. Box 1721.

MAHL, Fred W. (Junior, 1892), Mech. Engr., and Genl. Purchasing Agt., Colorado & Southern Lines.

NEVILL, David J. (1900), M. E., Stearns Roger Mfg. Co., and 1358 Ogden St.

NEWBURY, George K. (Junior, 1904), Secy. and Treas., Newbury Mchy. Co., 304 Century Bldg.

SEARING, Lewis (1897), V. P. and Genl. Mgr., Denver Engrg. Wks. Co.

SETHMAN, George H. (Junior, 1899), Mech. and Elec. Engr., 1540 Grant Ave.

SHEPARD, Frank E. (1889; 1902), Pres. and Mech. Engr., Denver Engrg. Wks. Co., 30th and Blake Sts., and 924 Washington Ave.

STEARNS, Thomas B. (1883), Mining and Mech. Engr., 1720 California St., and 1218 Washington Ave.

TRASK, Walter H., Jr. (Junior, 1908), Asst. to Sales Mgr., Denver Engrg. Wks. Co., and *for mail*, 845 Pennsylvania Ave.

VAN BUSKIRK, Henry C. (1906), Supt. M. P., Colo. & Southern Ry., and *for mail*, 1121 Clarkson St.

WALKER, Thomas C. (1891), Pres., Walker Mfg. Co., 2156 15th St.

WILKINSON, Thomas L. (1894; 1905), Cons. Mech. Engr., 213 Boston Bldg., and 1110 Downing Ave.

WILLIAMS, Charles Henry (1901; 1904), Northern Colorado Power Co., 610 Mercantile Bldg.

WILSON, Dwight Boyden (1908), Supt. of Power, Denver City Tramway Co., P. O. Box 1373, and 159 W. 2nd Ave.

YONT, Charles A. (1900), Mech. Engr., Box 165.

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Fort Collins

ENGEL, Godfrey (1892), Engr. of Constr.

LAWRENCE, J. W. (1892), Prof. Mech. Engrg., State Agricultural College.

Holly

WILEY, James M. (Junior, 1909).

Lamar

FEICHT, Edward R. (Junior, 1907), M. M., Am. Beet Sugar Co., and *for mail*, 500 S. Main St.

Pueblo

DEUEL, Harry Austin (1904), Ch. Engr., Colorado Fuel & Iron Co., 205 W. Orman Ave.

McKENNAN, Jacob Bowman (Junior, 1899), Mgr., Minnequa Works, Colorado Fuel & Iron Co., and 2016 Oakland Ave.

CONNECTICUT

Ansonia

BOWEN, David R. (1899), Supt., Farrel Fdy. and Mch. Co., and *for mail*, 5 Clover St.

SCHNELLER, Geo. Otto (Associate, 1905), Treas., Ansonia O. & C. Co.

Bantam

MARTIN, Edward J. (Junior, 1907), Wks. Mgr., Bantam Anti-Friction Co.

ROGERS, Winfield S. (1888), Pres., Bantam Anti-Friction Co.

Branford

HAMMER, Alfred E. (1884), Treas. and Genl. Mgr., Mall. Iron Fittings Co.

Bridgeport

BREWER, Arthur (1906), Asst. Supt. of Plant, Bridgeport Brass Co., and 100 Uncowa Hill.

BULLARD, Dudley Brewster (1899), Mech. Engr., Bullard Machine Tool Co., and 2429 North Ave.

CARD, Frederick M. (1906), Mech. Engr., Singer Mfg. Co., and *for mail*, Box 2107.

CLARK, Walter R. (Associate, 1908), Mech. Engr., Bridgeport Brass Co., and *for mail*, 1269 Noble Ave.

KINGSBURY, J. G. (1906), Pres. and Treas., Grant Mfg. & Mch. Co., 90 Silliman Ave.

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Bridgeport (Continued)

LAKE, Simon (1907), Pres., Lake Torpedo Boat Co.

LARKIN, Everett Pierce (Junior, 1906), Bridgeport Brass Co., and *for mail*, 243 William St.

LEACH, William H., Jr. (1905), Head, Dept. of Tests, Union Metallic Cartridge Co., and 141 Lenox Ave.

LEPPER, John G. (1902), P. O. Box 874, and 136 Poplar St.

MOORE, Harold T. (Associate, 1907), Production Engr., Bridgeport Brass Co., and *for mail*, Univ. Club.

RIKER, Andrew L. (1897; 1899), Manager, 1906-1909; V. P., Locomobile Co. of America, and *for mail*, 1416 Fairfield Ave.

STAPLES, H. A. (Junior, 1903), Foreman Tube Mill, Bridgeport Brass Co., and *for mail*, 1281 Noble Ave.

THOMAS, George Carlyle (Junior, 1907), Engr., Singer Mfg. Co., Factory No. 10, and *for mail*, 700 Noble Ave.

WEBSTER, William Reuben (1903; 1907), Genl. Supt., Bridgeport Brass Co., and *for mail*, 208 Brooklawn Ave.

WHITE, Everett H. (Junior, 1903), Mech. Engr., Plants No. 1 and 2, Crane Valve Co., 510 Main St., and *for mail*, 494 Colorado Ave.

WILLIAMSON, George E. (Junior, 1906), Engr. of Works., Union Metallic Cartridge Co., and 521 Laurel Ave.

Bristol

HILL, Reuben (1908), Factory Mgr., Bristol Engrg. Corp.

HODGE, Geo. O. (Junior, 1904), Bristol Engrg. Corp.

Clinton

KRUMMEL, Louis C. (1901), Cons. Engr., Rosemead Villa.

Collinsville

HILL, William (1883; 1889), Pres., The Collins Co.

Cos Cob

BAKER, Charles H. (Junior, 1903), Asst. Ch. Engr., Cos Cob Power Station, N. Y., N. H. & H. R. R. Co., and *for mail*, Box 55, Greenwich.

Derby

HUSON, Winfield Scott (1887; 1891), Genl. Supt., Whitlock Printing Press Mfg. Co., and 12 Cottage St.

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East Berlin

BENSON, Orville (1901), Plant Engr., Amer. Bridge Co.

Grosvenordale

ARNOLD, Walter S. (1901), M. M. & Ch. Engr., Grosvenordale Co., and P. O. Box 106.

Hartford

ALLEN, Francis B. (1880), V. P., Hartford Steam Boiler Co., 56 Prospect St.

BILLINGS, Charles E. (1880), V. P., 1893-1895; Pres., 1894-1895; Life Member; Pres. and Genl. Mgr., Billings & Spencer Co., and 86 Buckingham St.

BILLINGS, Frederic C. (1891), V. P. and Supt., Billings & Spencer Co., and 78 Elm St.

BOND, Geo. M. (1881), Manager, 1888-1891; V. P., 1908-1910; Mech. Engr., 141 Washington St.

BURGESS, Edward Wesley (Junior, 1908), Mech. Engr., Whitlock Coil Pipe Co., and *for mail*, Highland Court.

COLEMAN, Albert Edward (Junior, 1906), Plant Engr., Pratt & Whitney Company, 3 Bigelow St.

COOK, Asa S. (1889), Colt's West Armory, and *for mail*, 20 Charter Oak Place.

DARLINGTON, Philip J. (1904), The Roto Co., P. O. Box 1043.

EHBETS, C. J. (1890), Mech. Engr. and Pat. Expt., Colt's Pat. Fire Arms Mfg. Co., and 14 Vernon St.

GROHMANN, Carl L. (1898), Mech. Engr., Pratt & Whitney Co., and *for mail*, Highland Court.

GROVER, Lewis C. (1890), 88 Wethersfield Ave.

HANSON, B. M. W. (1900), Works Mgr., Pratt & Whitney Co., and 40 Huntington St.

HONISS, William Henry (1899), Mech. Engr., and Solicitor of Patents, 315 Pearl St., and 102 Huntington St.

HOWARD, Charles P. (1880), Pres., James L. Howard & Co., and 116 Farmington Ave.

HUNTER, J. S. (1889), 15 Washington St.

JACOBS, Ward S. (1897; 1904), Treas., The Walton Co., and 530 Farmington Ave.

LEWIS, Joseph E. (Junior, 1899), Treas., Bush Mfg. Co., and *for mail*, 33 Barnard St.

LOOMIS, Burdett, Jr. (1904), Conn. Mut. Bldg.

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Hartford (Continued)

LORENZ, Wm. A. (1899), Mech. Engr., 315 Pearl St., and 96 Garden St.

LUTHER, Flavel Sweeten (1898), Pres., Trinity College, and *for mail*, 115 Vernon St.

LYMAN, Dwight E. (1901), Supt., Asa S. Cook Co., Colt's West Armory, and 30 Annawan St.

MERRITT, Joseph (1907), Cons. and Constr. Mech. Engr., 315 Pearl St., and 64 Deerfield Ave.

MURPHY, Edward J. (1880), M. E. and Cons. Engr., Hartford Stm. Boiler Insp. & Ins. Co., and *for mail*, The "Linden," 427 Main St.

NEILSON, Frederick C. (Associate, 1908), Asst. Inspr. Engrg. Material, U. S. N., and *for mail*, 64 Kenyon St.

NEWTON, Charles E. (Associate, 1895), Treas., Jewell Belting Co., 53 Trumbull St., and 19 Marshall St.

PEARD, James J. (1891), Supt., Colt's Pat. Fire Arms Mfg. Co., and *for mail*, 33 Allen Pl.

PERKINS, Thos. Charles (Junior, 1893), Conn. Mut. Bldg.

QUINT, Alanson D. (1891), Mgr., Turret Drill Co., 12 Wells St., and *for mail*, 8 Clinton St.

RICE, Charles De Los (1907), Genl. Supt., 581 Capitol Ave., and 24 Marshall St.

ROSSBERG, Chas. Andrew (Junior, 1903), Ch. Draftsman, Veeder Mfg. Co., and *for mail*, 127 Oakland Terrace.

SHIRLEY, Robert (1906), Mech. Engr., Pratt & Cady Co., and *for mail*, 26 Lenox St.

SOUTHER, Henry (1894), Pres. and Treas., Henry Souther Engrg. Corp., 440 Capitol Ave.

TOWNSEND, Harry P. (Junior, 1904), Secy., H. P. Townsend Mfg. Co., and Cons. Engr., E. J. Manville Mch. Co., and *for mail*, P. O. Box 352, Waterbury.

TROWBRIDGE, Amasa (1892; 1903), Factory Mgr., Veeder Mfg. Co., and 17 Townley St.

VEEDER, Curtis H. (1888; 1897), Pres., Veeder Mfg. Co., 28 Sargeant St.

Naugatuck

BAKER, John C. W. (1904), M. M., U. S. Rubber Co., Reclaiming Plant, and *for mail*, 12 Fairview Ave.

PAYNE, Sheldon F. (1907), Master Mech., Goodyear's M. R. Shoe Co., and *for mail*, 30 Park Pl.

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New Britain

BONNER, William T. (1893; 1898), Mech. Eng., Amer. Hardware Corp., and *for mail*, 20 S. High St.

BROWN, Robert S. (1891; 1904), Secy., New Britain Mch. Co., and *for mail*, 41 Emmons Pl.

BURGESS, Chas. Munroe (1897), Life Member; 358 W. Main St.

CALEY, Charles J. (1906), Genl. Mgr., Russell & Erwin Mfg. Co.

FLETCHER, James R. (1906), 80 Russell St.

HART, Howard S. (1903), Pres., Hart & Cooley Co.

JARVIS, Chas. M. (1890), V. P., 1897-1899; 1st V. P., Amer. Hardware Corp., and Berlin.

JONES, Horace Kimball (1896), Life Member; Mech. Supt., Corbin Screw Corp., and 722 Asylum Ave., Hartford.

PICKOP, George B. (1908), M. M., P. & F. Corbin, and *for mail*, 242 Maple St.

STANLEY, Alix W. (1893; 1903), V. P., Stanley Rule & Level Co.

STONE, Elmer B. (Junior, 1906), Genl. Supt., Corbin Cabinet Lock Co., and 3 Trinity St.

VOIGHT, Henry Gustave (1908), Supt. Design and Constr., Russell & Erwin Mfg. Co., and *for mail*, P. O. Box 406.

New Haven

BARNUM, Geo. S. (1887), V. P., The Bigelow Co., and 72 Edgehill Road.

BIGELOW, Frank L. (1887), Pres., The Bigelow Co., and 205 Whitney Ave.

BREWER, Henry (1907), Mgr. Cartridge Dept., Winchester Repeating Arms Co., and *for mail*, 418 Orange St.

DUBOIS, A. Jay (1881), Life Member; Prof. Civil Engrg., Sheffield Scientific Sc., Yale Univ.

HENNEY, John (1884), Duncan Hall.

KNOUS, Franklin F. (1889), 265 Bassett St.

LOCKWOOD, Edwin H. (1890; 1903), Asst. Prof. Mech. Engrg., Sheffield Scientific Sc., Yale Univ., and *for mail*, 52 Division St.

MacARTHUR, Robert Jr. (Associate, 1904), Supt. M. P., Sargent & Co., and *for mail*, 159 Blatchley Ave.

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New Haven (Continued)

MARSHALL, Wm. Crosby (Junior, 1901), Asst. Prof. Descriptive Geom. and Drawing, 114 Winchester Hall, S.S.S., Yale Univ., and *for mail*, 201 Edwards St.

MASON, William (1880), Suptg. Engr., Winchester Repeating Arms Co., and *for mail*, 569 Elm St.

MOULTHROP, Leslie (Associate, 1891), Receiver, Dwight Slate Mch. Co.. and *for mail*. 620 Orange St.

MURPHY, John Killam (Junior, 1904), Winchester Repeating Arms Co., and *for mail*, P. O. Box 1234.

NORCROSS, J. Arnold (1900), Life Member; Secy. and Treas., New Haven Gas Light Co.

PENNEY, Rupert L. (Junior, 1906), Testing Engr., Winchester Repeating Arms Co., and *for mail*, 80 Willard St., Westville Sta.

RICHARDS, Charles B. (1880), Manager, 1880-1882; V. P., 1888-1890; Prof. Emeritus Mech. Engrg., Yale Univ., and *for mail*, 227 Edwards St.

ROE, Joseph W. (1902), Instr., Sheffield Scientific Sc., Yale Univ., and *for mail*, 79 Trumbull St.

ROWLAND, Amory E. (1891), Treas., Rowland Mch. Co., 413 Chapel St.

SARGENT, Henry Bradford (1898), Sargent & Co., and *for mail*, 247 Church St.

STARBUCK, George F. (Junior, 1901), Draftsman, Mech. Dept., N. Y., N. H. & H. R. R., and *for mail*, 70 Whalley Ave.

STONE, J. Wheaton (1898), Secy. and Mgr., Eastern Mchy. Co., and 27 Trumbull St.

WILDIN, George W. (1901), Mech. Supt., N. Y., N. H. & H. R. R.

New London

FORBES, Wm. Dunderdale (1886), Mech. Engr., Pres., W. D. Forbes Co., Engrs., and 5 Granite St.

HYDE, Charles E. (1885), Marine Engr. and Naval Arch.

LOOMIS, Fred. J. (1894), Treas. and Genl. Mgr., Standard Brass & Copper Tube Co., and *for mail*, 46 Alger Pl.

WHITON, Lucius E. (1905), Mgr. and Mech. Engr., D. E. Whiton Mch. Co., 190 Howard St., and 71 William St.

Norwich

PLUMMER, Frank J. (1891), 4 Laurel Hill Ave.

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Oakville

HAMILTON, Edward Waterman (Junior, 1905), Mech. Engr., Box 1434.

Portland

PASCALL, Richard Henry (1894), Pres., Pickering Governor Co., and Box 462.

South Norwalk

HILL, Ebenezer (1892), Genl. Mgr., Norwalk Iron Wks. Co.

HILL, Ebenezer, Jr. (1900; 1907), Secy. and Supt., Norwalk Iron Wks. Co., and *for mail*, 11 Elm St., Norwalk.

JENNINGS, Irving Callender (Junior, 1908), Nash Engrg. Co., 40 Water St., and *for mail*, 50 West St.

MATHEWS, William Edwin (1895), Supvr., Inspection and Tests, Norwalk Iron Wks. Co., and 40 West St.

Stamford

ALLEN, Walter Cleveland (Junior, 1905), Genl. Supt., Yale & Towne Mfg. Co., and 181 Greylock Pl.

ARNOLD, G. L. H. (1899), P. O. Box 1.

EMERY, Albert H. (1880), Civil and Mech. Engr., 788 Main St.

LELAND, George B. (Associate, 1907), Genl. Supt., Stamford Gas & Elec. Co., and *for mail*, 459 Summer St.

LEWIS, Rollin C. (1890), Asst. Supt., Bank Lock Dept., Yale & Towne Mfg. Co., and 56 South St.

McBRIDE, James (1886), Life Member; Stamford Mfg. Co.

TAYLOR, Warren H. (1889), Supt., Bank Lock Dept., Yale & Towne Mfg. Co., and *for mail*, Ripawam Pl.

TOWNE, Henry R. (1882), Pres., 1888-1889; V. P., 1884-1886; Life Member; Pres., Yale & Towne Mfg. Co., and *for mail*, 121 Madison Ave., New York, N. Y.

WEBER, Geo. A. (Associate, 1896), 71 Courtland Ave.

Thomaston

LANE, Almeron M. (1892), Life Member.

Thompsonville

UPSON, Lyman A. (1884), Treas., Upson-Martin Co.

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Torrington

ALVORD, C.H. (Associate, 1903), V. P. and Genl. Mgr., Hendey Mch Co., and 88 Litchfield St.

NORTON, Wendell P. (1903), Supt., Hendey Mch. Co.

Waterbury

ALEXANDER, Louis Albion (1901), Genl. Store Keeper, Genl. Supt.'s Office, Amer. Brass Co., and *for mail*, P. O. Box 514.

BRISTOL, Wm. H. (1890), Pres., The Bristol Co.

BRONSON, Edward L. (Associate, 1908), M. M., Shoe Hardware Co., and *for mail*, Montgomery St.

CAMPBELL, Andrew C. (1885; 1889), Secy. and Supt., E. J. Manville Mch. Co., 574 E. Main St., and *for mail*, 186 Hillside Ave.

CASTLE, John Samuel Parsons (Junior, 1899), Ch. Engr., Benedict & Burham Mfg. Co., and 332 W. Grove St.

CRANE, William Edward (1887), 420 Willow St.

DE LANCEY, Darragh (1891; 1908), Wks. Mgr., Waterbury Buckle Co.

GOSS, Edward O. (1889; 1906), Asst. Treas., Scovill Mfg. Co., and *for mail*, 90 Pine St.

HURD, Hobert J. (1894; 1897), Designer of Mchy., Waterbury Farrel Fdy. & Mch. Co., and *for mail*, 347 S. Main St.

ISBELL, Howard L. (Junior, 1891), M. M., Waterbury Brass Co., and *for mail*, 706 High St., Union City.

JOHNSON, Edward Willis (1892), 70 Chestnut Ave.

SANDERSON, E. S. (1895; 1903), care Scovill Mfg. Co., and *for mail*, 155 Buckingham St.

SUMMEY, David Long (1907), Mech. Engr., Chase Rolling Mill Co., and *for mail*, 3 Irving St.

THOMPSON, Hugh L. (1894).

West Hartford

WOLCOTT, Henry A. (1897), Mech. and Civil Engr.

Westport

WILLCOX, Charles Henry (1889), Life Member; Mech. Engr.

Willimantic

SLADE, Foster C. (Associate, 1907), Willimantic Gas & Elec. Ltg. Co.

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Windsor Locks

HORTON, S. Ellsworth (1905), Pres., S. E. Horton Mch. Co., also Eastern Rep., Bardons & Oliver of Cleveland, O.

DELAWARE

Edge Moor

GIRVIN, Chas. J. (1894; 1905), Supt., Edge Moor Iron Co.

Wilmington

BETTS, Alfred (1881), 906 Adams St.

DE CAZENOVE, Louis A., Jr. (Junior, 1905), Mech. Engr., Engrg. Div. E. I. du Pont de Nemours Powder Co., and *for mail*, The Wilmington, Delaware Ave.

DU PONT, Thomas Coleman (1906), Pres., E. I. du Pont de Nemours Powder Co.

FORGY, J. Edmunds (Junior, 1906), Lgt., Heat and P. Div., E. I. du Pont de Nemours Powder Co., 703 du Pont Bldg.

FULENWIDER, Henry L. (1901), Cons. Engr., Equitable Bldg., and New Castle.

HAZARD, Vincent G. (1882), Life Member; Designer Paper Machinery, Pusey & Jones Co., and *for mail*, 1001 Park Pl.

HILLES, T. Allen (1890), 1600 W. 7th St.

JOHNSON, J. E., Jr. (1896; 1901), 1002 King St.

MOXHAM, Egbert (Junior, 1906), Mgr., Pulp Key Dept., E. I. du Pont de Nemours Co., and *for mail*, 1204 Rodney St.

PUSEY, Charles W. (1880), Manager, 1892-1895; Life Member; Insp. Engr., Pusey & Jones Co., and Claymont.

SAVERY, Thomas H. (1901), Pres., Harpers Ferry Paper Co., Shenandoah Pulp Co., Pres., Denver Portland Cement Co., and Pres., Harpers Ferry Elec. Light & Power Co., also 1209 Eighth St.

SMITH, Edward Jos. (1904), Mech. Engr., Pusey & Jones Co., and *for mail*, 102 S. 13th St., Allentown, Pa.

SMITH, Robert W. (1890), V. P., Hilles & Jones Co., and *for mail*, 1105 Franklin St.

SPRUANCE, Wm. C., Jr. (1906), du Pont Bldg.

TALLMAN, Frank G. (1881), Manager, 1905-1908; Director of Purchases, E. I. du Pont de Nemours Powder Co., du Pont Bldg., and 1102 Broome St.

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Wilmington (Continued)

TRUMP, Charles N. (1888), Pres., Trump Bros. Mch. Co., and *for mail*, 1311 W. 13th St.

VAN TRUMP, Charles R. (1893; 1898), Life Member; 1318 W. 13th St.

DISTRICT OF COLUMBIA

Washington

AYRES, Gustav (1906), Pat. Atty. and Cons. Engr., 1110 F St. N. W.

BOND, Francis M. (Junior, 1909). Forest Service.

BURGOON, Charles Eli (1907), Asst Inspr. of Elec. Light Plants, Treas. Dept., and 1861 California St. N. W.

COOMBS, Howard A. (Junior, 1903), Pat. Atty. and Expt., 316-317 McGill Bldg., and 3753 McKinley St., Chevy Chase.

DILLARD, James B. (1907; Associate, 1909), Capt. Ordnance Dept., U. S. A., War Dept., and 1927 S St., N. W.

DOYING, William Albert E. (1907), Inspg. Engr., Isthmian Canal Commission, Mills Bldg. Annex, and 1627 Lamont St.

FOSTER, Chas. E. (1890; 1894), Lawyer, 908 G St., and 1017 16th St.

GILLIS, H. A. (1888), Mgr., 1901-1904; Fowler, Hardesty & Gillis, Cons. Engrs., Home Life Bldg.

HOLLERITH, Herman (1880; 1883), 1054 31st St.

HOLMES, Joseph Austin (1908), Expt. in Charge Tech. Branch U. S. Geolog. Survey, and 2137 Leroy Pl., N. W.

JAKOBSSON, Herman G. (1907), Ordnance Designer, Ordnance Office, War Dept., and 3 Stanley Apts., Harvard St.

JOHNSON, Arthur E. (1890; 1892), Life Member; Designer, Ordnance Office, War Dept., and *for mail*, 1514 Q St., N. W.

KING, Frank B. (1892), Cons. Marine Engr. and Naval Arch., 1442 Rhode Island Ave.

KNIGHT, Hervey S. (Associate, 1898), Pat. Lawyer and Expt., McGill Bldg., and 30 Piney Branch Rd.

McFARLAND, Walter Ashfield (1893), Supt., Water Dept., Dist. Bldg.

METZ, Walter R. (Junior, 1902), Supt. of Bldgs., U. S. Govt. Ptg. Office, and *for mail*, 211 A St., N. E.

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Washington (Continued)

MORTON, Geo. L. (1890), Principal Examiner, Instruments of Precision, Room 264, U. S. Pat. Office, and *for mail*, Flat 603, The Ontario.

NORTON, Harold P. (1906), Commander, U. S. N., Bureau Steam Engrg., Navy Dept., and Stoneleigh Court.

POLLARD, Willard Lacy (Junior, 1907), Asst. Examiner, Pat. Office, Div. 39, and *for mail*, 1615 Florida Ave.

POWELL, John Edgar (1904), Ch. Mech. and Elec. Engr., Office Supervising Arch., Treas. Dept., and *for mail*, Box 25, Station H.

RAYNAL, Alfred H. (1884), Manager, 1889-1902; Mech. Engr., Bureau of Steam Engrg., Navy Dept., and *for mail*, 1626 Riggs Pl., N. W.

RIDGELY, William Barret (1880; 1895), 1908 Q St.

SCHOENBORN, W. E. (Junior, 1891), Solic. of Patents, Expt. in Pat. Causes, McGill Bldg., 908-912 G St., N. W., and 1359 Harvard St., Columbia Heights.

SIMPSON, George R. (1889; 1897), Principal Examiner in charge of Ry. and Rolling Stock Div., Room 304, U. S. Pat. Office, and Lincoln Apts.

SPONSLER, Charles Fred'k (Junior, 1904), Ch. Engr., Bureau of Standards, Dept. of Commerce and Labor, and *for mail*, The Palmer, 1450 Girard St.

SULLIVAN, Lucien N. (1903), Translator War Dept., Army War College, and *for mail*, 1502 Meridian Pl., N. W.

TALCOTT, Robert Barnard (1907), Asst. Ch. Mech. and Elec. Engr., Office of Supervising Arch., Treas. Dept., and *for mail*, Florence Court.

UPTON, William Bayly (1894), Cons. Engr., Washington Loan & Trust Bldg., 902 F St., N. W., Cleveland Park.

WHEELER, Chas. Van Cise (1906), Supt. Projectile Dept., Firth-Sterling Steel Co., P. O. Box 812, and *for mail*, 404 Stoneleigh Court.

WHEELER, Earl (Junior, 1907), Head Dept. Elec. and Mech. Engrg., Engrg. Sc., U. S. A., Washington Barracks.

GEORGIA

Athens

HODGSON, Walter B. (Junior, 1908), Empire State Chem. Co.

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Atlanta

ANDERSON, Harry Warfield (Associate, 1907), Genl. Mgr., White Star Auto. Co., and *for mail*, No. 6, Lenox Apt., 31 Porter Pl.

BERTSCH, John Charles (1901), Cons. Engr., 228 Brown-Randolph Bldg.

COON, J. S. (1880), Prof. Mech. Engrg., Prof. of Drawing, Supt. of Shops, School of Tech., and 26 Kimball St.

DAVIDSON, Archer (Associate, 1907), Dist. Engr., Westinghouse Mch. Co., 1326 Candler Bldg.

FENNELL, Benjamin C. (Junior, 1902), Contractor and Engr., Empire Bldg.

HILLYER, George, Jr. (1898; Associate, 1904), Mgr. Amer. Radiator Co., Candler Bldg., and *for mail*, 5 Crew St.

HOLMES, Andrew A. (Junior, 1904), Pres. and Treas., Hancock, Holmes Fdy. Mch. Wks., P. O. Box 461, and 31 Porter Pl.

NEELY, Frank H. (Junior, 1908), Industrial Engr., 70 Madison Ave., and 231 W. Peachtree St.

PITKIN, Joseph Lovell (Associate, 1903), Southern Rep., A. Klipstein & Co., 1622 Candler Bldg.

SCALES, Henry Jackson (Junior, 1907), 48 Forrest Ave.

SCOTT, Earl Francis (1904; 1906), Mech. Engr., in charge of Engrg. Dept., Atlanta Office, Genl. Fire Extinguisher Co., 276 Marietta St.

SMEAD, William H. (Junior, 1906), P. O. Box 699.

Auraria

CARLE, Nathaniel A. (1907), Box 32.

Calhoun

WRIGHT, Calvin Shelor (Junior, 1907).

Cartersville

HARDY, Carl E. (Junior, 1902), Secy. and Genl. Supt., Ladd Lime & Stone Co., and *for mail*, Box 53.

Macon

JACKSON, Percy (Junior, 1904), P. O. Box 193, and 826 Orange St.

PORTER, John A. (1908), Genl. Supt., Bibb Mfg. Co., and *for mail*, P. O. Box 413.

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Porterdale

PORTER, O. S. (1888), Mgr., Cotton Mills.

Savannah

GAINES, Frederic F. (1901), Supt. Motive Power, Central R. R. of Ga., and 211 E. Hall St.

WALSH, Thomas J. (Junior, 1906), Asst. Engr., Stone & Webster Eng. Corp., and *for mail*, Savannah Electric Co.

HAWAII

Honolulu

HANEY, James Briggs (Junior, 1905), U. S. Engr. Office, McCandless Bldg.

HEDEMANN, Christian J. (1904), Mgr., Honolulu Iron Wks. Co., P. O. Box 228.

YOUNG, John M. (Junior, 1902), Dean Engrg., College of Hawaii.

IDAHO

Boise

BURTON, J. Harry (Junior, 1906), Carlson Lusk Hardware Co.

ILLINOIS

Aurora

DULL, Raymond Wm. (1908), Ch. Engr. and Supt., Stephens-Adamson Mfg. Co., and *for mail*, 464 Garfield Ave.

McCLATCHEY, A. F. (1889), 245 Benton St.

MacGILL, Chas. Frederick (1896), Factory Mgr., Lyon Metallic Mfg. Co., and *for mail*, P. O. Box 134.

Carterville

RICHART, Fred. W. (1905), Pres. Ill. Engrg. and Mch. Co.

Chicago

ABBOTT, William L. (1891), Manager, 1907-1910; Ch. Operating Engr., Commonwealth Edison Co., 139 Adams St., and *for mail*, 3213 Beacon St.

ALLEN, Henry Asa (1900), Pres., Henry A. Allen & Co., 1431 First Natl. Bank Bldg., and 1632 Irving Park Blvd., D3 The Pattinzton.

AMES, Joseph H. (1898), Ch. Engr., Amer. Car and Fdy. Co., 419 Ry. Exchange, and 438 Maple Ave., Oak Park.

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Chicago (Continued)

ANGUS, Joseph Johnson (1904), 1541 Carroll Ave.

BAEHR, William Alfred (1903), 1943 Commercial Natl. Bank Bldg.

BALDWIN, C. Kemble (1905), Ch. Engr., Robins New Conveyor Co., 1040 Old Colony Bldg., and 5427 Jefferson Ave.

BARBIERI, Cæsar (1908), Pres. and Mech. Expt., Barbieri & Dellenbarger Co., and *for mail*, 1437 Leland Ave.

BARNES, Charles B. (1905; 1908), Mech. Engr., Holabird & Riche, Architects, 1618 Monadnock Bldg., and *for mail*, 325 E. 53d St.

BATTEN, Percy H. (Junior, 1901), Natl. Brake Shoe Co., 303 Ry. Exchange Bldg., and *for mail*, 52 Walton Pl.

BEMENT, A. (1901), Cons. Mining and Mech. Engr., 2114 Fisher Bldg.

BIGELOW, Frank Burr (1907), 1541 Marquette Bldg.

BIRD, Paul P. (1907), Ch. Smoke Inspr., Dept. of Smoke Inspc., City of Chicago, and *for mail*, 66 E. 48th St.

BIRDSEY, Charles Robt. (Associate, 1907), Ch. Engr., U. S. Gypsum Co., 200 Monroe St., and *for mail*, 934 Harrison St.

BLAKE, Clinton F. (1901), 1494 Park Ave.

BLAUVELT, Albert (1896), Assoc. Mgr., Western Factory Ins. Assn., N. Y. Life Bldg., 171 La Salle St.

BOGARDUS, Henry A. (Associate, 1907), Henry A. Bogardus & Co., 178 E. Huron St.

BOURNE, George L. (1903), V. P., Ry. Materials Co., 1515 Old Colony Bldg., and 4944 Michigan Blvd.

BOWEN, Harrison Seba (1895; 1908), Mech. Engr., R. W. Hunt & Co., 1121 Rookery Bldg., and Wilmette.

BOWER, J. G. (Associate, 1903), Sales Agt., Pressed Steel Car Co., 1475 Old Colony Bldg., and Metropole Hotel.

BRANCH, Joseph Gerald (1904), Elec. and Mech. Engr., 1602 Majestic Theatre Bldg., and 206 Oakwood Blvd.

BRILL, Geo. M. (1891; 1896), Manager, 1904-1907; Mech., Elec. and Arch. Engr., 1134-5 Marquette Bldg., and 6613 Harvard Ave.

BRONAUGH, Will Logan (Associate, 1905), Mgr., Iroquois Engrg. Co., 1211 Fisher Bldg., and 4467 Oakenwald Ave.

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Chicago (Continued)

BYLLESBY, H. M. (1882), Pres., H. M. Byllesby & Co., Amer. Trust Bldg.

CAMPBELL, Gordon M. (1906), Supt., Power Apparatus Shops, West. Elec. Co.

CARTER, Henry W. (1892; 1903), Mech. Expert, 635 Monadnock Bldg., and 1127 Winthrop Ave.

CHALMERS, William J. (Associate, 1902), Pres., Commer. Natl. Safe Deposit Co., 1733 Commercial Natl. Bank Bldg., and 23 Lake Shore Drive.

CHAMBERLAIN, George E. (1907), 1614 Fisher Bldg.

CHAMBERLAIN, Paul Mellen (1890; 1899), Ch. Engr., Underfeed Stoker Co. of Amer., 834 Marquette Bldg., and *for mail*, 1917 Diversey Blvd.

CHARTER, James Adams (1899), Mech. Engr., Austin Mfg. Co., and *for mail*, 3148 Vernon Ave.

CHRISTENSEN, Chas. C. (1890), Estimating Engr., Allis-Chalmers Co., and *for mail*, 1380 N. Fairfield Ave.

CLIFFORD, Oliver Chas. (1903), Dept. of Physics, Armour Inst. Tech., 33d and Armour Ave., and *for mail*, 6020 Monroe Ave.

COES, Harold V. O. (Junior, 1907), Plant Engr. and Asst. to Pres., Liquid Carbonic Co., 67 Wells St., and 16 Astor St., Maison du Nord.

COLE, Cyrus L. (Junior, 1908), Testing Engr., Allis-Chalmers Co., and *for mail*, 1862 Magnolia Ave.

CUSHMAN, Arthur Wesley (Junior, 1905), Div. Supt., Swift & Co.

DE PUY, C. E. (1891; 1903), Prof. Mech. Design and Constr.,-Lewis Inst., and *for mail*, 411 N. Elmwood Ave., Oak Park.

DE WOLFE, Edwd. Chas. (1899; 1906), Member of Russell-DeWolfe Co., 355 Dearborn St., and 2 Bryant Ave.

DINGEE, W. W. (1886), Ret. Mech. Engr., 5811 Madison Ave.

DIXON, Horace Harcourt (1904; 1906), Mech. Engr., Treas., Dixon Steam System Co., and *for mail*, Royal Thames Yacht Club, 7 Albemarle St., London, England.

EASTHOPE, Joseph (1906), Master Mech., Ill. Steel Co.'s South Wks., and *for mail*, 7534 Saginaw Ave.

ELLICOTT, Edw. Beach (1903), Elec. Engr., Sanitary Dist. of Chicago, 1500 Amer. Trust Bldg., and *for mail*, 1206 Winthrop Ave.

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Chicago (Continued)

ELLIOTT, W. E. (1889), Suptg. Engr., Goodrich Transit Co.

ELMES, Chas. W. (1904), Pres., Chas. F. Elmes Engrg. Wks., Morgan and Fulton Sts., and 2922 Prairie Ave.

EMRIE, Almon (1898), Genl. Supt., Link-Belt Co., and *for mail*, 4652 Woodlawn Ave.

EWEN, John Meiggs (1887), Cons. Engr., Pres., John M. Ewen Co., Engrs. and Bldrs., 525 Rookery Bldg., and 59 Bellevue Pl.

FERGUS, William L. (1903; 1906), W. L. Fergus & Co., Cons. Engrs., 1509 Fisher Bldg., and 3229 Sheridan Road.

FINGAL, Chas. A. (1886), Hansell-Elcock Co., 23d St. and Archer Ave., and *for mail*, 5632 Drexel Ave.

FITCH, Alfred Lyon (Associate, 1907), Asst. Supt., Union Wire Mattress Co., Blackhawk St. and Cherry Ave., and *for mail*, 107 E. 45th St.

FITCH, Claude E. (1902), Mech. Engr., 1435 First Natl. Bank Bldg., and *for mail*, 1033 Elmwood Ave., Wilmette.

FLINN, Charles Forrest (Associate, 1905), Mech. Engr., 570 Old Colony Bldg., and *for mail*, 6448 Washington Blvd., Oak Park.

FORSYTH, Robert (1881), Manager, 1891-1894; Cons. Engr., 1159 Rookery Bldg.

FORSYTH, William (1883), Manager, 1888-1891; Mech. Engr., Rwy. Age Gazette, 160 Harrison St., and Windermere Hotel.

FOSTER, Chas. F. (1890), Cons. Engr., 33 Indiana St., and *for mail*, 222 Irving Ave., S.

FRASER, Norman D. (1886), Pres., Chicago Portland Cement Co., 1016 Stock Exchange Bldg., and *for mail*, 1241 Washington Blvd.

FRITH, Arthur J. (1894), Assoc. Prof. Mech. Engrg., Armour Inst. of Tech., 33d and Armour Aves.

GARDNER, Horace C. (1904), Mgr. Constr. and Mech. Depts., Swift & Co., and *for mail*, 4523 Greenwood Ave.

GATES, Philetus W. (1902), V. P., 1906-1908; Room 920, 209 State St.

GEBHARDT, George F. (1904), Prof. Mech. Engrg., Armour Inst. of Tech., and 5329 Kimbark Ave.

GIFFORD, Robt. L. (1902), Pres., Ill. Engrg. Co., Monadnock Bldg., and 4908 Kimbark Ave.

GREEN, Wm. O. (1891), Member of Firm, Ogden, Sheldon & Co., 34 Clark St., and 11 Astor St.

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Chicago (Continued)

HAGAR, Edw. McKim (1895; Associate, 1899), Pres., Univ. Portland Cement Co., 115 Adams St., and 10 Astor St.

HAMILTON, Alex. K. (Junior, 1900), Pres., M. H. Treadwell Co. of Ill., 510 Commercial Natl. Bank Bldg., and 5417 Cornell Ave.

HAWLEY, Wm. Parker (Junior, 1903), Instr. Mech. Drawing, Lewis Inst., and 320 N. 64th Ave., Oak Park.

HEATON, Herman C. (Junior, 1904), Mech. Engr., Sargent & Lundy, Rwy. Exchange, and Box 189, Berwyn.

HECHT, Julius Lawrence (1907), Mech. Engr., North Shore Elec. Co., Room 1001, 205 La Salle St., and 2022 Harrison St., Evanston.

HENDEE, Edward Thomas (Associate, 1908), Mgr., Mchy. Dept., Joseph T. Ryerson & Son, and *for mail*, 1446 Sheridan Road.

HEWLINGS, Andrew J. (1898), Sales Mgr., 519 So. Canal St., and *for mail*, 238 E. 53rd St.

HOBERT, Stephen G. (1897; 1906), Cons. Engr., 172 Washington St., and Flossmoor.

HOLCOMB, A. Elton (Junior, 1901), 2204 W. Van Buren St.

HOLL, Charles L. (Junior, 1908), Engr. Pump Testing Dept., Allis-Chalmers Co., and *for mail*, 3207 Malden St.

HORTON, William H. (Junior, 1904), Mech. Engr. Constr. Dept., Swift & Co., and *for mail*, 6830 Anthony Ave.

HUMPHREY, Clifford Wayne (Associate, 1907), Cons. and Designing Engr., 618 Rookery Bldg.

HUNT, Robert W. (1880), Pres., 1890-1891; Mgr., 1882-1885; Robert W. Hunt & Co., Inspr. and Cons. Engr., 1121 Rookery Bldg., and 614 E. Division St.

JACKSON, Wm. B. (1901), Life Member; D. C. & Wm. B. Jackson, Cons. Engrs., 508 Commercial Natl. Bank Bldg., and 911-984 State St., Boston, Mass.

JOHNSON, Louis L. (1908), Westinghouse Mch. Co., Room 1412, N. Y. Life Bldg.

JONES, Harold C. (Junior, 1903), Mech. Engr., 1105 First Natl. Bank Bldg., and 56 Woodland Park.

JONES, W. Clyde (Junior, 1892), Lawyer, Room 1610, 134 Monroe St., and 2 Rector St., New York, N. Y.

KEELY, Royal R. (1901; 1907), 738 Washington Blvd.

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Chicago (Continued)

KEIL, Gustave B. (1908), Mech. Engr., 2340 N. Paulina St.

KELLOGG, Harry F. (1909), Mech. Engr., Chicago, N. Y. & Boston Refrig. Co., and *for mail*, 5431 Jefferson Ave.

KIMBER, George Alfred (1901, 1903); Mfr., 88-92 W. Jackson Blvd., and 788 N. Talman Ave.

KING, Chas. G. Y. (1891), Ch. Constr. Engr., Cosmopolitan Elec. Co., Grove St., and *for mail*, 1020 Sheridan Rd., Wilmette.

KREHBIEL, Frederick A. (Associate, 1902), Treas., Fuel Engrg. Co., 1712 Marquette Bldg., and 4953 Calumet Ave.

KREUTZBERG, Otto August (Associate, 1904), V. P., Pfannmueller Engrg. Co., 1003 First Natl. Bank Bldg., and 38 Roslyn Pl.

LANE, Francis W. (Associate, 1900), 537 W. 67th St.

LAVERY, Geo. L. (1886), Pres., Amer. Bank Equipt. Co., 900 Tribune Bldg., and 4300 Ellis Ave.

LEA, Henry I. (1906; 1909), Cons. and Operating Gas Engr., Rookery Bldg.

LEONARD, Arthur G. (1890), V. P., Genl. Mgr., Union Stock Yard & Transit Co. of Chicago, Union Stock Yards, and 4801 Woodlawn Ave.

LEVIN, Arvid Michael (1894), Mech. Engr., 910 Monadnock Bldg.

LINDBERG, Fritz A. (Associate, 1908), Asst. Engr., Geo. M. Brill, 1134 Marquette Bldg., and *for mail*, 5832 Indiana Ave.

LOCKETT, Kenneth (1904; Associate, 1907), Mech. Engr., Orr & Lockett Hardware Co., 71-73 Randolph St., and *for mail*, 5116 Madison Ave., also Ch. Engr., Acme Match Co., Roanoke, Va.

LOFTS, David (1901), Mech. Engr., Blue Island Car & Equip. Co., and *for mail*, 4300 Ellis Ave.

LOUER, Lewis S. (Associate, 1900), Western Mgr., Engrg. Record, 590 Old Colony Bldg.

LUDLOW, C. G. (1902), Mgr., Western Dept., Crosby Steam Gage & Valve Co., 21-23 W. Lake St., and *for mail*, 1617 Montrose Ave.

LUHR, Otto (1907), Cons. Engr. and Instr. Mech. Engrg., Wahl-Henius Inst., 337 Fullerton Ave., and *for mail*, 434 Potomac Ave.

LUNGER, Waldo G. (Junior, 1901), Mgr. Chicago Branch, Union Twist Drill Co., 54 W. Washington St., and 637 Hinman Ave., Evanston.

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Chicago (Continued)

LYMAN, James (1899), Engr., Western Dist., Genl. Elec. Co., 1047 Monadnock Bldg., and 1308 Maple Ave., Evanston.

MACFARLAND, Helon Brooks (1907), Cons. Engr., 358 Dearborn St., and *for mail*, 5329 Kimbark Ave.

MAGEE, John (Junior, 1907), Irrigation Lands Drainage, 1128 First Natl. Bank Bldg., and Hamilton, Mont.

MARSH, Thomas Alfred (Junior, 1905), Engrg. Insp., Green Eng. Co., 1848 Commercial Natl. Bank Bldg., and *for mail*, 6542 Washington Ave.

MASSA, Robert F. (1904), Creamery Package Mfg. Co., and *for mail*, 221 Ewing St.

MELCHER, Chas. W. (1890), Chicago Mgr., Ingersoll-Rand Co., 1500 Old Colony Bldg., and *for mail*, 36 Hickory St., Hinsdale.

MERRILL, Albert S. (Junior, 1903), Univ. Portland Cement Co., Room 1830, Commercial Natl. Bank Bldg., and *for mail*, 524 Pleasant St., Oak Park.

MITCHELL, John Hennon (Associate, 1900), Mgr. of Sales, Western Dist., Pressed Steel Car Co., Western Steel Car & Fdy. Co., 1470 Old Colony Bldg., and 1031 Judson Ave., Evanston.

MOHR, Louis (1886), Secy. and Cons. Engr., John Mohr & Sons, 32 Illinois St., and 707 N. Robey St.

MONROE, Wm. Stanton (1896; 1901), Mech. Engr., Sargent & Lundy, 1720 Rwy. Exchange Bldg., and *for mail*, 56 Astor St.

MONTGOMERY, H. M. (1889), Chicago Mgr., Alberger Condenser Co., 205 La Salle St., and 1221 Davis St., Evanston.

MOODY, William O. (1907), Mech. Engr., Illinois Central R. R., and *for mail*, 3539 Ellis Ave.

MOORE, Albert B. (1903), Ch. Engr., Griffin Wheel Co. of Chicago, and *for mail*, 5426 Jefferson Ave.

MORAVA, Wensel (1886), Pres., Morava Constr. Co., 1245 Marquette Bldg., and 5621 Monroe Ave.

MORSE, Chas. H., Jr. (1897; 1904), Pres., Fairbanks-Morse Mfg. Co., 481 Wabash Ave., and *for mail*, 249 E. 49th St.

MOSELEY, Alexander Willett (1900), Prof. Mechs., Head Dept. Engrg., Lewis Inst.

MURPHY, John Z. (1899), Ch. Engr., Chicago Rwys. Co., 444 N. Clark St., and *for mail*, 1949 Lexington St.

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Chicago (Continued)

MURRAY, Charles R. (Associate, 1899), Supt., Barnhart Bros. & Spindler, 183-187 Monroe St., and 1714 Asbury Ave., Evanston.

NAYLOR, Chas. Wm. (1905), Ch. Engr., Marshall Field & Co., 83 State St., and *for mail*, 2275 Congress St.

NEILER, Samuel Graham (1907), Cons. Engr. and Pres., Pierce, Richardson & Neiler, 1409-12 Manhattan Bldg., and Oak Park.

NETTLETON, William Alpheus (1905), Genl. Supt. Motive Power, Chicago, Rock Island & Pacific Ry. Co., La Salle St. Sta., and 29 Bellevue Pl.

NILES, Francis H. (Associate, 1907), 607 Fisher Bldg.

NISTLE, George W. (1901), Secy., Illinois Engrg. Co., 315 Dearborn St., and *for mail*, R. F. D. No. 8, Muskegon, Mich.

O'NEIL, J. G. (Associate, 1904), Contr. Engr., 304 Rookery Bldg., and 5919 Calumet Ave.

OTIS, Spencer (1890), Mech. Engr., 517 Rwy. Exchange Bldg., and 1449 Sheridan Rd.

OWEN, Ira June (Junior, 1905), Cons. Engr., 855-857 First Natl. Bank Bldg., and 110 Maple Ave., Oak Park.

PATITZ, Gerhardt J. (1900; 1907), Ch. Engr., Peter Schoenhofen Brewing Co., 18th St. and Canalport Ave.

PAUL, Charles Edward (1908), Assoc. Prof. Mechanics, Armour Inst. of Tech., and *for mail*, 6355 Ingleside Ave.

PEARSALL, Gilbert H. (Associate, 1908), Genl. Mgr. of Sales, Jos. T. Ryerson & Son, 16th and Rockwell Sts.

PEARSON, Walter B. (1886), Pres., Standard Screw Co., 6 Madison St., and 2821 Sheridan Rd.

PECK, Staunton B. (1890), V. P., Link-Belt Co., Cons. Engr., J. M. Dodge Co., 39th St. and Stewart Ave., and 223 E. 46th St.

PETTIS, Clifton D. (1905), Hewitt Mfg. Co., 303 Rwy. Exchange.

PIEZ, Charles (1894), Pres., Link-Belt Co., 39th and Stewart Ave., and V. P., Dodge Coal Storage Co.

PROSSER, Joseph George (1891; 1898), 412 E. 60th St.

PUCHTA, Edward (1909), Asst. Supt., West. Elec. Co., 48th Ave. and W. 24th St., and *for mail*, 59 Buena Ave.

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Chicago (Continued)

PULSIFER, Harold M. (1907), Pres., Rockwood Sprinkler Co., 206 La Salle St., and 437½ Elm St.

RANSOM, Allan (Associate, 1903), V. P., Marshall & Huschart Mchy. Co., 62 S. Canal St.

RATTLE, Paul S. (Junior, 1908), Sales Engr., B. M. Osbun Co., 832 Commercial Natl. Bank Bldg.

REID, John Simpson (1898), Instr. Mech. Drawing and Design, Armour Inst. Tech., and 3312 Dearborn St., Armour Flats, No. 1.

RICE, Arthur L. (1895; 1902), Managing Editor, The Practical Engineer, Consulting on Power Plant Engrg., 355 Dearborn St.

RIGGS, John D. (1892; 1907), 6545 Perry Ave.

RIGHTER, Addison A. (1909), Dir. and Mech. Engr., John M. Ewen Co., 525 Rookery Bldg.

RUCKES, Joseph J., Jr. (Junior, 1902), Engr., Barrett Mfg. Co., and *for mail*, 1336 Bristow St., New York, N. Y.

SAMPLE, Morris De F. (Junior, 1905), Mgr. of Dept., Natl. Pat. Holding Co., Rwy. Exchange, and *for mail*, 1529 Perry St., Ravenswood.

SARGENT, Frederick (1901), Mech. Engr., Sargent & Lundy, Rwy. Exchange, and Harbor St., Glencoe, Cook County.

SAXON, William (1906), Genl. Supt., Miehle Printing Press & Mfg. Co., and *for mail*, 117 Maple Ave., Oak Park.

SAYERS, William W. (1901; 1906), Constr. Engr., Link-Belt Co., 39th St. and Stewart Ave., and *for mail*, The Wabun, 39th St. and Ellis Ave.

SCHENCK, Charles (Junior, 1902), Supt. Car Shops, Chicago Rys. Co., 40th Ave. and Washington Blvd., and 419 S. Howard Ave., Austin.

SCOTT, George Welsby (1903), Cons. Engr., Security Bldg., 5th Ave. and Madison St., and 1594 Kenmore Ave.

SEYMOUR, Dudley S. (1905), Supt., Union Spec. Mch. Co., 75 E. Kinzie St., and *for mail*, 228 N. Elmwood Ave., Oak Park.

SHANKLAND, E. C. (1895), Civil Engr., E. C. & R. M. Shankland, 1106 Rookery Bldg., and 4808 Champlain Ave.

SHERMAN, Mason H. (1902), Genl. Mgr., By-Products Coke Corp., Marquette Bldg., and 221 E. 47th St.

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Chicago (Continued)

SNYDER, Frederick T. (1900), Pres., Metallurgic Engrg. Co., 738 Monadnock Bldg., and Oak Park.

SORGE, Adolph (1886), Mech. Engr., 1537-38 Monadnock Bldg., and St. Joseph, Mich.

SOUTHWORTH, Martin O. (1907), Elec. Engr., Fairbanks, Morse & Co., 481 Wabash Ave., and *for mail*, Hotel Windermere.

SPENCER, Frank C. (Associate, 1908), Mech. and Constr. Engr., 7135 Eggleston Ave.

SPRADO, Ralph (1900), Sales Mgr., Bates Mch. Co., Joliet, and *for mail*, 1037 Winona Ave.

STEELE, Walter D. (1892; 1901), V. P., Benjamin Elec. Mfg. Co., 42 W. Jackson Blvd.

STIMSON, Oscar M. (1906), Pres., Paragon Metal Co., 31st St. and Ashland Ave., and *for mail*, 5006 Michigan Ave.

SWEENEY, John M. (1885), Mech. Engr., 1306 Monadnock Bldg., and 6017 Monroe Ave.

THORP, George G. (1892; 1904), 2d V. P., Illinois Steel Co., Commercial Natl. Bank Bldg., and 1012 Lake Shore Drive, Evanston.

TOLTZ, Max E. R. (1904), Genl. Mgr., Manistee & Grand Rapids R. R., 2014 Fisher Bldg., and St. Paul, Minn.

TRAVER, Wilber H. (Associate, 1904), Mgr. Mining and Contract Dept., Chicago Pneumatic Tool Co., 1010 Fisher Bldg.

TROUTMAN, Howard Ellsworth (Associate, 1906), 4551 Forestville Ave.

UNGER, John S. (1886), Cons. Engr., 613 N. Y. Life Bldg., and *for mail*, 383 Evanston Ave.

VAN ZANDT, Paul C. (1900, Associate, 1907), Mech. Engr. and Salesman, Cement Dept., Allis-Chalmers Co., 1522 First Natl. Bank Bldg., and 338 S. Euclid Ave., Oak Park.

WAIT, Henry Heileman (1905), Pres., Rateau Turbine Co., 215 Wabash Ave., and *for mail*, 4919 Madison Ave.

WAITE, Edward B. (Associate, 1902), Head of Instr. Dept., Amer. Sch. of Correspondence, and *for mail*, 4207 Drexel Blvd.

WELLS, Frederick Latimer (1892), 116 S. Clinton St.

WHITTEMORE, D. J. (1889), Ch. Engr., C. M. & St. P. Ry., 1345 Rwy. Exchange, and *for mail*, 222 Biddle St., Milwaukee, Wis.

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WIDDICOMBE, R. A. (1898; 1906), V. P. and Mgr., Dixon Co., First Natl. Bank Bldg., and *for mail*, 2573 Lakewood Ave., Edgewater Sta.

WILLIAMS, George W. (1904; 1907), Asst. Engr., Geo. M. Brill, 1134 Marquette Bldg., and *for mail*, 1010 E. 59th St.

WILSON, William L. (Junior, 1907), Aluminum Co. of Am., Old Colony Bldg., and Highland Park.

WINGER, Stanley D. (Junior, 1904), Sales Engr., care Green Engrg. Co., Commercial Natl. Bank Bldg., and 4447 Indiana Ave.

WISNER, George M. (1907), Ch. Engr., Sanitary Dist. of Chicago, 1500 Amer. Trust Bldg.

WOLF, Fred William (1904), Pres., Fred W. Wolf Co., Rees and Dayton Sts., and 1938 Diversey Blvd.

ZAPP, Louis M. (Junior, 1906), A. L. Drum & Co., 624 Amer. Trust Bldg.

Chicago Heights

SMITH, Geo. Marshall (Associate, 1904), Ch. Engr., Inter-Ocean Steel Co., and 34 Forrest Ave.

Decatur

SMITH, Harry E. (1894; 1903), Prof. Mech. Engrg., James Millikin Univ., and *for mail*, 1346 W. Wood St.

East Alton

OLIN, F. W. (Associate, 1895), Pres., Equitable Powder Mfg. Co., and Western Cartridge Co., and Union Cap & Chemical Co., and *for mail*, 1128 State St., Alton.

East Moline

ROOT, Orlando J. (1898), Secy., Root & Van Dervoort Engrg. Co., and Moline Auto. Co., and 616 24th St., Moline.

East St. Louis

APPLETON, Thomas (1893), Supt. of Constr., U. S. Public Bldgs.

Elgin

GABRIEL, Wm. A. (1891), Ch. Draftsman and Designer, Elgin Natl. Watch Co., and *for mail*, 570 Chicago St.

HUNTER, Geo. E. (1890), Genl. Supt., Elgin Natl. Watch Co., and *for mail*, 325 Watch St.

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Elgin (Continued)

MALVERN, Lewis K. (1894; 1903), Foreman Mch. Dept., Elgin Natl. Watch Co., Box 64.

PRICE, Albert M. (1899; 1904), Cons. Mech. Engr., 56 River St., and *for mail*, 636 East View St.

Granite City

JEFFERIES, Frederick Lester (1900; 1905), Supt., Corn Products Refining Co.

Harvey

BRANDON, Geo. Russel (1897; 1901), V. P. and Genl. Engr., Whiting Fdy. Equipment Co., and *for mail*, 5203 Washington Ave., Chicago.

JENKINS, M. L. (1899), Genl. Supt., Buda Fdy. & Mfg. Co., and *for mail*, 15322 Turlington Ave.

McDOUGALL, Andrew Horace (1908), Ch. Engr., Whiting Fdy. Equipment Co., and *for mail*, 15420 Lexington Ave.

MORGAN, John R. (1901), Genl. Mgr., Calumet Engrg. Wks., and 1838 W. 99th St., Walden, Chicago.

Hawthorne

ALBRIGHT, H. Fleetwood (1903), Genl. Supt., West. Elec. Co., 48th Ave. and W. 24th St.

DODGE, Albert C. (1908), Supt., West. Elec. Co., and *for mail*, 419 N. Grove Ave., Oak Park.

HARPER, John (1907), Ch. Draftsman, West. Elec. Co., 48th Ave. and 24th St., and La Grange.

PENNOCK, George Alger (Junior, 1903), Asst. Supt. Service and Maintenance, West. Elec. Co., and *for mail*, 1995 Jackson Blvd., Chicago.

SAGE, Harmon M. (1904), Asst. Genl. Supt., West. Elec. Co., 48th Ave. and 24th St.

SPURLING, O. C. (1907), Plant Engr., West. Elec. Co.

WALLACE, David A. (1892; 1904), Mech. Engr., West. Elec. Co., and Park Hotel, Oak Park.

Joliet

FISHER, Lee David (Junior, 1898), Ch. Engr., Fisher Constr. Co., 100 Cass St., and 512 Western Ave.

HEALD, George W. (Junior, 1899), 105 Sherman Court.

MEAKER, Guy Larnard (Junior, 1904), Asst. Supt., Am. Steel Wire Co., Rockdale Wks., and *for mail*, 216 Grover St.

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Kewanee

BANNISTER, John C. (1902), Mgr., Kewanee Wks., Natl. Tube Co., and 519 S. Tremont St.

TERRY, Charles Dutton (1902; 1908), Supt., Mills Depts., Natl. Tube Co., Kewanee Wks., and *for mail*, 334 W. Prospect St.

La Salle

NEUREUTHER, Andrew Henry (Junior, 1899), Mech. Engr., West. Clock Mfg. Co., and *for mail*, 1511 4th St., Peru.

Moline

MIXTER, George W. (1899; 1908), Genl. Supt., Deere & Co.

Oak Park

SHALLENBERGER, Louis R. (1895; 1902), 239 Maple Ave.

Oglesby

FRASER, D. Ross (Junior, 1907), Chicago Portland Cement Co.

Peoria

BELSLEY, Clay (1899; 1904), City Engr., 308 City Hall, and 1405 N. Jefferson Ave.

HARMAN, John J. (Junior, 1906), Mech. Engr., Harman Engrg. Co., 120 Fredonia Ave.

MAURY, Dabney Herndon (1890), Cons. Engr., 129 N. Jefferson Ave., and 500 Bradley Ave.

WALLACE, Ross S. (1904), Supt., Peoria Gas & Elec. Co., 125-7 N. Jefferson Ave., and 216 North St.

Quincy

HILL, Thomas (1900), Cons. Engr., 2102 Jersey St., and Lawndale.

Rockford

BARNES, W. F. (1886), 813 N. Main St.

GODDARD, Arthur L. (1903).

INGERSOLL, Winthrop (Associate, 1893), Pres., Ingersoll Milling Mch. Co., 911 N. Church St.

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South Chicago

BACON, Charles James (1905; 1907), Steam Engr., Illinois Steel Co., and 309 E. 66th St., Chicago.

FREYN, Heinrich Josef Karl (1906), M. E., Asst. Engr. of Constr., Illinois Steel Co., and 4830 Madison Ave., Chicago.

NEWTON, Peter Augustin (1905), Asst. Genl. Supt., Illinois Steel Co., South Wks., and *for mail*, 5006 Madison Ave., Chicago.

Urbana

BENCH, Alfred Rittscher (Junior, 1907), Instr. Mech. Engrg., Univ. of Ill.

BRECKENRIDGE, L. P. (1890), V. P., 1907-1909; Prof. Mech. Engrg., Univ. of Ill., and 1005 W. Green St.

BROOKS, Morgan (1885), Life Member; Prof. Elec. Engrg., Univ. of Ill.

DIRKS, Henry B. (Junior, 1907), Instr. in Mech. Engrg., Univ. of Ill., 307 Engrg. Hall, and 706 S. 2nd St., Chicago.

DISERENS, Paul (Junior, 1908), Research Asst., Univ. of Ill., and *for mail*, 203 W. Green St.

GARLAND, Claude Mallory (Associate, 1906), Instr. in Mech. Engrg., Univ. of Ill., and *for mail*, 505 W. Green St.

GOSS, W. F. M. (1886), Manager, 1900-1903; Life Member; Dean College of Engrg., Univ. of Ill.

LEUTWILER, Oscar A. (Junior, 1904), Asst. Prof. Mch. Design, Univ. of Ill., and *for mail*, 511 W. Green St.

MARQUIS, Frank W. (Junior, 1908), R. E. Dept. Engrg. Exper. Sta., M. E. Lab., Univ. of Ill.

SCHMIDT, Edward C. (1908), Assoc. Prof. Rwy. Engrg., Univ. of Ill.

SNODGRASS, John McB. (Junior, 1904), Asso., Engrg. Exper. Sta., Univ. of Ill.

THORPE, John C. (Junior, 1903), Asst. Prof. Steam Engrg., Univ. of Ill., and 407 E. Main St.

WHITTEMORE, Herbert L. (Junior, 1903), Lab. Applied Mechanics.

Waukegan

EKSTRAND, Lars Magnus (1907), Engr., Chicago Dist., Amer. Steel & Wire Co., and *for mail*, 131 Lenox Ave.

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Winnetka

HERDMAN, Frank E. (1889), Mgr. and Engr., Water and Light Properties.

INDIANA

Brazil

CRAWFORD, C. W. (1905), Supt., Crawford & M'Crimmon Co., and 147 Ridge St.

Connersville

WILKIN, John T. (1898), Mech. Engr., Connersville Blower Co., and *for mail*, 905 Grand Ave.

East Chicago

GRAVER, Alexander M. (Junior, 1908), Mech. Engr., Wm. Graver Tank Wks., and 7211 Yale Ave., Chicago, Ill.

Elwood

McARTHUR, Arthur Royal (1906), Amer. Sheet & Tin Plate Co.

Fort Wayne

ASTROM, John (1900; 1903), Mech. Engr., 611 W. Wayne St.

BARRETT, Walter Aldrich (Junior, 1906), Sales Dept., Bass Fdy. & Mch. Co., and *for mail*, 2325 Fairfield Ave.

CASE, Theo. Newton (1891; 1896), Ch. Engr., Kerr Murray Mfg. Co., and *for mail*, 338 W. Taber St.

CORK, Robert L. (Junior, 1907), Gasholder Engr., Western Gas Constr. Co., and *for mail*, 118 E. Leith St.

CRESSLER, Geo. Holloway (Junior, 1905), Secy., Kerr Murray Mfg. Co., and *for mail*, 501 W. Berry St.

CRESSLER, Kerr Murray (Junior, 1907), Asst. Engr., Kerr Murray Mfg. Co.

GULDLIN, Olaf N. (1905), Pres. and Ch. Engr., Western Gas Constr. Co., and 2306 Fairfield Ave.

HACKNEY, Wm. W., Jr. (Junior, 1906), Asst. Engr., Western Gas Constr. Co.

MORRIS, Wm. S. (1897), 813 W. Berry St.

MUIR, John J. (1896), Mech. Supt., Bass Fdy. & Mch. Co., and *for mail*, 2221 Fairfield Ave.

STONE, Thos. W. (Junior, 1903), Engr., Western Gas Constr. Co., and 919 Columbia Ave.

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Gary

BRADSHAW, Grant D. (Junior, 1904), Foreman of Billet Mill, Ill. Steel Co., and *for mail*, Box 532.

ENGLISH, Harry K. (Associate, 1908), Box 688.

Indiana Harbor

LEES, John Walter (1908), Genl. Supt., Inland Steel Co.

MacGREGOR, Walter (1906), care Amer. Steel Foundries.

Indianapolis

BIXBY, Allan Smith (1907), Supt., Natl. Malleable Castings Co.

CARLSSON, Carl A. V. (1905), Engrg. Dept., Atlas Engine Wks., and *for mail*, P. O. Box 303.

CROOK, Geo. Louis (1905), Mgr., Gas Engine Dept., Atlas Eng. Wks.

DE HAVEN, Irvin C. (Junior, 1907), Dist. Mgr., A. Sorge, Jr., Co., 525 State Life Bldg.

HAMERSTADT, William Diehl (Junior, 1907), Engr., Rockwood Mfg. Co., and *for mail*, 27 E. Pratt St.

HANNA, Hugh Henry, Jr. (Associate, 1907), V. P., Atlas Eng. Wks., and 10 W. 46th St.

KENNEDY, Harold H. (Junior, 1907), Auto. Engr. and Designer, The Waverley Co., and 2339 N. Capital Ave.

LIBBY, Charles Leon (1900), V. P. and Supt., Internatl. Mch. Tool Co., and 1123 Capital Ave.

LOCKWOOD, Burns D. (1907), Mech. Engr., C. C. C. & St. L. Ry., and *for mail*, 2354 Ashland Ave.

McMEANS, O. E. (Junior, 1904), Cons. Engr., 607 State Life Bldg., and 591 Middle Drive, Woodruff Pl.

MAYER, Louis G. C. (Junior, 1902), 2916 N. Senate St.

MILLHOLLAND, William Knox (1907), Secy., Interntl. Mch. Tool Co., and 3446 N. Capital Ave.

MUELLER, Otto Nicholas (Junior, 1907), Ch. Engr., Noelke Richards Iron Wks., and *for mail*, 2908 N. Meridian St.

MYERS, Curtis Clark (Junior, 1905), Mech. Engr., Diamond Chain & Mfg. Co., and *for mail*, 618 E. 21st St.

SCHWARTZ, Harry Adolph (Junior, 1907), Chemist, Natl. Malleable Castings Co., and *for mail*, 522 Tibbs Ave.

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Indianapolis (Continued)

SYMONDS, Nathaniel Gardiner (Junior, 1905), Sales Engr., Westinghouse Mch. Co., 404 Traction-Terminal Bldg., and *for mail*, 27 W. 27th St.

TAYLOR, Wm. M. (1888; 1904), Pres., Chandler & Taylor Co., and 2426 E. Washington St.

TODD, Robert I. (1907), V. P. and Genl. Mgr., Indianapolis Traction & Terminal Co.

WAINWRIGHT, Lucius M. (1907), Pres., Diamond Chain & Mfg. Co., 241 W. Georgia St., and 1855 N. Penna St.

WALL, William Guy (1907), Mech. Engr., Natl. Motor Vehicle Co.

WARRINGTON, Jesse (1887), Mech. Supt., Nordyke & Marmon Co., and *for mail*, 265 N. Randolph St.

WEINSHANK, Theodore (1906), Indiana State Mgr., Amer. Engrg. Specialty Co., 729 Newton Claypool Bldg.

Kendallville

PURINTON, Arthur James (1893), Mgr. for Receiver, Toledo & Chicago Interurban Ry. Co.

Lafayette

BENJAMIN, Chas. Henry (1892), Dean Schools of Engrg., Purdue Univ., and 629 University St.

COLE, Arthur W. (Junior, 1904), Asst. Prof. Mech. Engrg., Purdue Univ., and *for mail*, 224 Waldron St., West Lafayette.

GOLDEN, M. J. (1892), Prof. Practical Mechanics, Purdue Univ.

HOFFMAN, James David (1894; 1903), Prof. Engrg. Design, Purdue Univ., and 301 State St., West Lafayette.

JAMISON, Alpha Pierce (Junior, 1900), Prof. Mech. Drawing, Purdue Univ., and *for mail*, 111 State St., W. S.

LUDY, Llewellyn V. (1905), Prof. Mech. Engrg., Purdue Univ., and 229 University St.

PRICE, Melvin (Associate, 1905), Mech. Engr., R. 7.

TURNER, William Payson (1900; 1908), Prof. Practical Mechs., Purdue Univ.

VEAL, C. B. (Associate, 1907), Asst. Prof. Mch. Design, Purdue Univ., and 129 Russell St., West Lafayette.

YOUNG, Gilbert A. (1906), Asst. Prof. Mech. Engrg., Purdue Univ., and *for mail*, 409 University Ave., West Lafayette.

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La Porte

CHAMBERLAIN, Harry M. (1907), 808 Michigan Ave.

LARKIN, William Harrison, Jr. (1904), Asst. Supt., M. Rumely Co., and *for mail*, 1121 Main St.

RUMELY, William N. (1885), Pres., M. Rumely Co., and *for mail*, 1012 Harrison Ave.

ZIMMERMAN, Oliver B. (1905), Mech. Engr. and Ch. Draftsman, M. Rumely Co., and *for mail*, 1204 Clay St.

Mishawaka

AHARA, Edwin Hugh (1906), Genl. Supt., Dodge Mfg. Co.

MIX, Melville W. (1893), Pres. and Mgr., Dodge Mfg. Co.

ROE, Walter E. (1902), Ch. Draftsman, Dodge Mfg. Co., and 109 E. 4th St.

Muncie

COX, Claude E. (Associate, 1907), Ch. Engr. and Factory Mgr., Interstate Auto. Co., and Delaware Hotel.

New Castle

WATERMAN, Charles (1903), Genl. Foreman of Assemblers, Maxwell Briscoe Motor Co., and *for mail*, 908 Vine St.

South Bend

BISHOP, Frank (Associate, 1907), Engrg. Dept., Singer Mfg. Co., Case Factory, and *for mail*, 1241 Michigan Ave.

EMERSON, R. W. (Associate, 1902), Mech. Engr., Singer Mfg. Co., Case Factory, and *for mail*, 1105 Michigan Ave.

RICKEY, Walter J. (1903), Supt., Cabinet Factory, Singer Mfg. Co., and 1005 W. Washington St.

Terre Haute

WAGNER, Frank C. (1895), Prof. Steam Engrg., Rose Poly. Inst., and *for mail*, 1111 S. 6th St.

IOWA

Ames

DAVIDSON, J. Brownlee (Junior, 1905), Prof. Agricultural Engrg., Iowa State College, and 719 Hoggatt Ave.

MAJOR, C. C. (Junior, 1902), Assoc. Prof. Mech. Engrg., Engrg. Hall, Iowa State College, and 808 College St.

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Burlington

SALMON, Frederick W. (1900; 1904), Civil and Mech. Engr., Murray Iron Wks., and *for mail*, 815 N. 6th St.

Charles City

WILLSON, Ernest M. (Associate, 1909), Ch. Draftsman, Hart-Parr Co., and *for mail*, 601 Wisconsin St.

Davenport

BETTENDORF, William P. (1895), Pres., Bettendorf Axle Co.

HAYWARD, Elmer L. (Junior, 1902), Pres., Freeo Valley Ry. and Nacogdoches S. E. R. R. Co., Lane Bldg., and 220 College Ave.

Dubuque

LARSON, Charles J. (1907), Ch. Engr., Union Elec. Co., and *for mail*, 1058 Locust St.

LOETSCHER, Emil C. (Junior, 1901), V. P., Loetscher-Ryan Mfg. Co., and 33 Winona Ave.

Iowa City

WOODWARD, Sherman Melville (1907), Prof. Hydraulics and Engrg. Materials, State Univ. of Iowa.

Keokuk

MILLER, Herman Gottlieb (1908), Supv. Engr., S. P. Pond Co., and *for mail*, 419 Fulton St., also Supv. Engr., Clarinda Poultry, Butter & Egg Co., Clarinda, and Iowa Cold Storage Co., Clinton.

KANSAS

Caney

WETTENGEL, C. Albert (Junior, 1903), Engr., Amer. Zinc, Lead & Smelting Co., and *for mail*, P. O. Box 266.

Chanute

COBURN, Richard G. (Junior, 1901), 19 S. Central.

Iola

HUNT, Leigh Anson (1906), Pres., Hunt Engrg. Co.

Kansas City

MANLEY, Sumner Marshall (Junior, 1907), M. M., Proctor & Gamble Co., and *for mail*, 633 Schaeffer Ave., Kansas City, Mo.

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Lawrence

CORP, Charles I. (Junior, 1904), Asst. Prof. Mech. Engrg., Kansas Univ., and *for mail*, 114 W. Lee St.

WALKER, Perley F. (1908), Prof. Mech. Engrg., Univ. of Kansas, and *for mail*, 1301 Ohio St.

Merriam

McBAIN, William Coryell (Junior, 1904), Ch. Engr., Kansas City and Olathe Elec. R. R. Co.

Parsons

MADDOCKS, Wm. H. (1891), Asst. Supt. Mchy. and Equipment, M. K. & T. Ry., and *for mail*, 2311 W. Crawford Ave.

Topeka

BROOKS, Henry K. (1907), Capital Iron Wks.

JACOBS, Henry William (1905), Asst. Supt. M. P., Atchison, Topeka, & Santa Fe Ry. System, cor. Crane and Adams Sts., and 231 Western Ave.

KENTUCKY

Lexington

ANDERSON, Frederick Paul (1908), Dir. College of Mech. and Elec. Engrg., Prof. Mech. Engrg., State Univ. of Kentucky.

Louisville

HAMILTON, Thomas Smith (Junior, 1905), Mech. Engr., Mengel Box Co., and *for mail*, 14 Eastover Court.

HERB, Arthur (Junior, 1905), Mech. Engr., J. Schwarzwalder & Sons, 18th and Magnolia Sts., and *for mail*, 1443 3rd St.

SPEED, Wm. S. (1900; 1904), V. P. and Mgr., Louisville Cement Co., and *for mail*, 523 Park Ave.

Mt. Sterling

McKEE, Neal Trimble (Junior, 1907), H. Clay McKee & Sons Co., 71 W. Main St., and 69 W. Main St.

Newport

HECKER, H. A. (1906), 154 Ward Ave., Bellevue.

ROBINSON, Louis G. (Junior, 1905), cor. 4th and Park Ave.

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LOUISIANA

Baton Rouge

KERR, Eugene W. (1902; 1908), Prof. Mech. Engrg., Louisiana State Univ.

Cinclare

WHIPPLE, William (Junior, 1905), Supt., Cinclare Central Factory.

Lake Charles

CHALKLEY, Henry G. (1908), Mgr. and Engr., North Amer. Land & Timber Co., and 920 Kirby St.

Morgan City

PHARR, Eugene A. (1908).

New Orleans

BECK, James Doughty (1906), Supt. Constr., Shakespeare Iron Wks., and *for mail*, 2331 Constance St.

BURWELL, Robert Turnbull (1901), Ch. Insp., Gulf Dept., Hartford Steam Boiler Insp. & Ins. Co., 818 Gravier St., and *for mail*, 4927 Perrier St.

CASTANEDO, Walter (1907; 1909), Member of Firm, Glenny & Castanedo, 1125-27 Maison Blanche Bldg., and *for mail*, 1514 Peters Ave.

CRAWFORD, Charles C., Jr. (Junior, 1906), A. M. Lockett & Co., Ltd., 533 Baronne St.

GREGORY, William B. (1895; 1903), Prof. Exper. Engrg., Tulane Univ., and Irrigation Engr., U. S. Dept. Agriculture, 630 Pine St.

HOPKINS, Guy (1905), Operating Engr., S. Pac. R. R., and 730 Esplanade Ave.

HUTSON, Henry L. (1906; 1908), A. M. Lockett & Co., 533 Baronne St., and 721 Lowerline St.

IVENS, Edmund M. (Junior, 1908), Asst. Mgr., New Orleans Office, Skinner Eng. Co., 1018 Hibernia Bank Bldg., and *for mail*, 1737 Peters Ave.

JAHNCKE, Ernest Lee (Associate, 1904), Mgr., Jahncke Navigation Co., 814 Howard Ave.

JOHNSON, Lewis (1880), Pres., Johnson Iron Wks. (Ltd.), P. O. Drawer 241, and *for mail*, 1614 St. Charles Ave.

JOHNSON, Warren (Associate, 1904), Cons. Engr., 903 Perrin Bldg., and 1614 St. Charles Ave.

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New Orleans (Continued)

LOCKETT, Andrew Moore (1900), Pres., A. M. Lockett & Co. (Ltd.), 533 Baronne St., and 1639 Robert St.

McKINNEY, Edward Byron (1907), Supt. of Power, New Orleans Rwy. & Light Co., 323 Baronne St., and *for mail*, 1323 Octavia St.

MALOCHEE, Henry J. (1901), Mech. Engr., 320 Hibernia Bldg., and *for mail*, 2222 Esplanade Ave.

RAYMOND, Alfred (1904), Genl. Mgr. Drainage, Municipal Office Bldg., and *for mail*, 1324 Nashville Ave.

REED, Warren Bettison (1907), Cons. Engr., 1013 Hibernia Bldg., and 426 Walnut St.

RUGAN, Henry Fisler (1900), Associate Prof. of Mech. Arts, Tulane Univ. of Louisiana.

SAMMONS, E. A. (1900), Pres., E. A. Sammons Co., 303-307 Magazine St., and 1619 Jackson Ave.

VON PHUL, William (1907), Engr., in charge of Southern Properties, Ford, Bacon & Davis, Liverpool, London & Globe Bldg., and *for mail*, 508 Walnut St.

WESTERFIELD, George Sumner (Junior, 1903), Mgr. and Dist. Mgr., Hooven, Owens, Rentschler Co., 326-328 Hennen Bldg., and Warren Webster & Co.

WHITE, Maunsel (1882), Life Member; Cons. Engr. & Steel Met., P. O. Box 206.

Olivier

PHARR, Henry Newton (1907), Sugar Planter and Mfr., Iberia Parish.

Washington

KING, Geo. Caryl (1908), Asst. Genl. Mgr. and Mech. Engr., Union Irrigation Co., and *for mail*, P. O. Box 133.

MAINE

Bangor

HUMPHREY, Orman B. (1907), Cons. Engr., 96½ Exchange St., and *for mail*, 63 Grove St.

PENNEY, Rodney Clapp (1905), Mech. Engr., Dodge Mfg. Co., and *for mail*, 87 Montgomery St.

Bath

ANDREWS, Jacob R. (1906), Pres., Hyde Windlass Co.

HYDE, John Sedgwick (Associate, 1892), Pres. and Genl. Mgr., Bath Iron Wks.

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Biddeford

McARTHUR, Robt. (1894), Agt., Pepperel Mfg. Co.

Brunswick

EATON, Russell Wm. (1894), Agt., Cabot Mfg. Co., and 17 Federal St.

Cumberland Mills

WARREN, John E. (1886), Agt., Paper and Pulp Mills, and 159 Cumberland St.

Millinocket

FERGUSON, Hardy Smith (1899), Ch. Engr., Great Northern Paper Co.

North Lovell, Oxford Co.

GARCELON, Charles A., Jr. (Junior, 1902).

Orono

JEWETT, Arthur C. (1909), Prof. Mech. Engrg., Univ. of Maine.

Scarborough

JORDAN, Samuel S. (1887), Naval Arch. and Engr.

South Brewer

CLARK, Charles B. (1899), Genl. Supt., Eastern Mfg. Co., and *for mail*, 193 Essex St., Bangor.

Waterville

MARR, Geo. H. (1891; 1905), Mech. Engr., Hollingsworth & Whitney Co., and *for mail*, 89 Silver St.

PHILBRICK, Frank B. (1891), 20 College Ave.

MARYLAND

Annapolis

COLE, Winthrop (1891; 1904), Mech. Engr., Engrg. Exper. Sta., U. S. Naval Acad., and 252 King George St.

HOWARD, O. Zell (1908), Mech. Engr. and Asst. to Dir., U. S. Naval Exper. Sta., and *for mail*, 50 Franklin St.

JOHNSON, Theodore Woolsey (Associate, 1900), Life Member; Prof. Mech. Drawing, U. S. Naval Acad., and *for mail*, Franklin Hill.

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Baltimore

ADAMS, Henry (1899), Cons. Engr., 855-859 Calvert Bldg., and 728 Reservoir St.

BASSHOR, Chas. Hazeltine (1908), V. P. and Genl. Mgr., Thomas C. Basshor Co., 28 Light St.

BOYDEN, George A. (1907), P. O. Box 486, and Mt. Washington.

CHATARD, Wm. Miles (1903; 1909), Dist. Mgr., Carbondale Mch. Co., 1412 Continental Trust Bldg., and 1225 Maryland Ave.

DARBEE, William (Junior, 1900), Asst. Genl. Mgr., Cons. Gas, Elec. L. & Power Co. of Baltimore.

DETRICK, Jacob S. (1892), Pres., Detrick & Harvey Mch. Co., 508 E. Preston St., and 205 E. Preston St.

FORD, John D. (1884), Rear Admiral U. S. N., 2319 Maryland Ave.

KEILHOLTZ, Pierre Otis (1901), Cons. Engr., Continental Trust Bldg., and 1605 Bolton St.

LAZENBY, Francis A. (1901), F. A. Lazenby & Co., Bush and Wicomico Sts., and *for mail*, 2017 Callow Ave.

LINDSAY, W. Edward (1895), Cons. Engr., 1703 Guilford Ave.

McLAUGHLIN, James (1901), Pres., McLaughlin Bros. Inc., 915 Bolton St., and 521 St. James St., and *for mail*, The Art Club, Philadelphia, Pa.

MIDDLETON, Harvey (1886), Pres., Thos. C. Basshor Co., Engrs. and Contrs., 28 Light St., and 29 W. Preston St.

MUHLFELD, John E. (1908), Genl. Supt. M. P., Baltimore & Ohio R. R., and *for mail*, 2214 Enton Pl.

PARKER, John Henry (Associate, 1901), Mch. Designer and Expert, Rippe Bldg., 7 Clay St., and *for mail*, 2215 Ruskin Ave.

PEIRCE, Wm. Henry (1887), 2d V. P., Baltimore Copper Smelting & Rolling Co.

POSEY, James (Junior, 1907), Asst. Engr., Henry Adams Cons. Engr., 859 Calvert Bldg., and 623 N. Calhoun St.

REEDER, Charles L. (1907), Cons. Engr., 919-921 Equitable Bldg.

SCOTT, James B. (1896; 1900), Cons. Engr., Maryland Savings Bank Bldg., and 2011 Bolton St.

SICKLES, Eugene Chas. (1896; 1904), Supt. Power Plants, B. & O. R. R., 712 Dolphin St., and *for mail*, 827 N. Arlington Ave.

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Baltimore (Continued)

THOMAS, Edward W. (1880), Genl. Mgr., Cons. Cotton Duck Co., and *for mail*, 111 Stevens St., Lowell, Mass.

VARNEY, Wm. Wesley (1892), Mech. Engr., and Atty. at Law, 1221 Calvert Bldg., St. Paul and Fayette Sts., and *for mail*, 710 N. Carey St.

Cumberland

MUNCASTER, Walter J. (1887), V. P. and Genl. Mgr., Cumberland Steel Co., and 26 S. Mechanic St.

Port Deposit

FLINT, Walter (1902), Supv. Engr., Tome Institute.

Sparrows Point

HOLLMANN, Frederick W. (Junior, 1907), Steam Engr., Maryland Steel Co., and *for mail*, 1815 N. Charles St., Baltimore.

JUMP, Edmund P. (Junior, 1903), Maryland Steel Co.

LANE, Harry Clay (1907), Ch. Draftsman, Maryland Steel Co., and *for mail*, 604 C St.

MARTIN, Simon Strock (1903), Supt., Maryland Steel Co., P. O. Box 87, and 520 B St.

Washington Grove

BUCKLER, Albert H. (Junior, 1905).

MASSACHUSETTS

Acton

CROOKER, Ralph, Jr. (1890), Cons. Engr.

Adams

PLUNKETT, Charles T. (1909), V. P. and Secy., Berkshire Cotton Mfg. Co.

Athol

McGREGOR, John A. (1902), Pres., Union Twist Drill Co., and *for mail*, 1429 Main St.

SIMPSON, Robert James Osborne (1906), Supt. and Mech. Engr., L. S. Starrett Co., and *for mail*, 129 Union St.

Attleboro

MOSSBERG, Frank (1895), V. P. and Genl. Mgr., Frank Mossberg Co., also Vice-Pres. and Cons. Engr., Standard Mch. Co., of Providence, R. I., and *for mail*, 141 Pleasant St.

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Attleboro (Continued)

TUTTLE, Walter Irving (Junior, 1908), Secy., Treas. and Asst. Genl. Mgr., Frank Mossberg Co., and 32 Medway St., Providence, R. I.

Auburndale

KENDALL, James H. (1892).

Beverly

BALL, Walter Seaver (1900), United Shoe Mchy. Co., and *for mail*, 32 Pickett St.

FARRELL, Harry C. (1908), Mech. Engr., United Shoe Mchy. Co., and *for mail*, 47 Grant Rd., Swampscott.

KAVEN, Moses B. (1891), Supt., United Shoe Mchy. Co., and *for mail*, 556 Cabot St.

Boston

ADAMS, Kilburn E. (Junior, 1908), Mech. Engr., and Asst. Mgr., Wm. Underwood Co., 52 Fulton St.

ALDRICH, Chester S. (Junior, 1909), Managing Partner, Gray-Aldrich Co., 7 Commercial Wharf.

ANDERSEN, Johan Marinius (1908), Pres., Albert & J. M. Andersen Mfg. Co., 289 A St., and 89 Evans St., Dorchester Center.

ANDREW, James D. (1904), Supt. of Power Stations, Boston Elevated Ry. Co., 439 Albany St.

ASHTON, Albert Carter (1901), Treas., Ashton Valve Co., 271 Franklin St., and *for mail*, 33 Columbus Ave., Somerville.

BAGG, Samuel F. (1896), 114 Water St.

BAILEY, Ervin G. (Junior, 1903), Mech. Engr., Fuel Testing Co., 220 Devonshire St., and 1057 Walnut St., Newton Highlands.

BARRUS, Geo. H. (1883), V. P., 1906, Expt. and Cons. Steam Engr., Room 301, Pemberton Bldg., 12-20 Pemberton Sq.

BARTLETT, Charles H. (1908), Constr. Engr., Stone & Webster Engrg. Corp., and *for mail*, 8 Copley St., Winchester.

BARTLETT, Henry (1897), Genl. Mech. Supt., Boston & Maine R. R., N. Sta., and *for mail*, 51 Highland St., Cambridge.

BATES, Edward Carrington (1899), 122 Marlboro St.

BELLOWS, Lewis Edward (Associate, 1898), 24 Milk St.

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Boston (Continued)

BIGELOW, Charles H. (1904), with Chas. T. Main, Mill Engr., 45 Milk St., and *for mail*, 237 Duncan Ave., Jersey City, N. J.

BLOOD, John Balch (1895; 1903), Cons. Engr., Blood & Hale, 10 P. O. Sq., and 232 High St., Newburyport.

BOYD, John T. (1887), Mgr., Yale & Towne Mfg. Co., 12 Pearl St., and 1819 Beacon St., Brookline.

BROOKS, Louis C. (Junior, 1901), Master Electrician, Navy Yard, and 12 Fairmount Ave., West Somerville.

BROWN, Charles F. (Associate, 1901), Solicitor of Patents, 837 Exchange Bldg., and 83 Prospect St., Reading.

BROWN, Harry W. (Junior, 1909), Engr., D. C. & Wm. B. Jackson, 84 State St., and 118 Brighton Ave., Allston.

BULLOCK, Edwin R. (1890; 1904), Mech. Engr., United Cotton Gin Co., 184 Summer St., and *for mail*, 38 Brook St., Pawtucket, R. I.

BUMP, Archie Edmund (Associate, 1908), Mgr. Constr. Dept., Swift & Co., 34 N. Market St.

BURLEIGH, Chas. B. (1905), Commercial Engr., Genl. Elec. Co., 84 State St., and 1 Oak Terrace, Malden.

BUSHNELL, Fred N. (1891), Stone & Webster Engrg. Corp., 147 Milk St., and 234 Armington St., Providence, R. I.

BUTCHER, Joseph J. (1892), Guiler-Gordon Engrg. Co., 442 Board of Trade Bldg., 10 Broad St., and *for mail*, 195 W. Brookline St.

CARHART, Alfred Bangs (1907), Supt., Crosby Steam Gage and Valve Co., and *for mail*, 10 Roland St., Charlestown.

CHANDLER, Clarence Austin (1900), Mech. Engr., 402 Penn Mutual Bldg., 24 Milk St., and East Bridgewater.

CHAPMAN, David Albert (Junior, 1908), Supt. Estate, E. S. Converse, 101 Milk St., and *for mail*, 163 Grover Ave., Winthrop Highlands.

CHENEY, Nathan (1906), Ch. Draftsman, Stone & Webster Engrg. Corp., 147 Milk St., and 28 Dana St., Cambridge.

CHILDS, Eugene (1899), Treas., Fresno-Belvoir Mining Co., 112 School St., Roxbury.

CHURCH, Wm. Lee (1880), Manager, 1884-1887; Pres. and Cons. Engr., Ambursen Hyd. Constr. Co., 176 Federal St., and Newton Centre, also City Investing Bldg., New York, N. Y.

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Boston (Continued)

CLARK, Edward Lord (Associate, 1905), Mgr., Boston Office, Westinghouse Mch. Co., 131 State St., and 9 Summit Ave., Brookline.

CLARKE, Alfred (1886), Pres., Gas & Elec. Corps., 131 State St.

COBURN, Howard L. (1901), Secy. and Mech. Engr., Ambursen Hyd. Constr. Co., 176 Federal St., and *for mail*, Tech. Chambers.

COLLINS, B. R. T. (1891; 1901), Engr., Stone & Webster Engrg. Corp., 147 Milk St.

CRAIG, Charles H., Jr. (1908), Asst. Supt., Am. Steam Gage & Valve Mfg. Co., 208 Camden St., and *for mail*, Needham.

CROSBY, William Wyman (1900; 1902), M. E., with F. W. Dean, Room 1112, 53 State St., and 8 Court St., Woburn.

CUMMINGS, Wm. Warren (1905), Asst. Mgr., Commercial Dept., Boston Cons. Gas Co., 24 West St., and *for mail*, 15 Winter St., Woburn.

CUNNINGHAM, Thos. (1899), Treas. and Genl. Mgr., Cunningham Iron Co., Summer, B and Fargo Sts.

CURTIS, Ralph E. (1888; 1901), Edison Elec. Illuminating Co. of Boston, 39 Boylston St., and *for mail*, 15 Allen St., West Roxbury.

DAGGETT, Herbert Chapin (1907), Mgr., N. E. Branch Office, S. Morgan Smith Co., 176 Federal St.

DAWES, Herbert N. (1902), V. P., Nightingale & Childs Co., Secy., Dominion Asbestos Co. Ltd., 205 Congress St., and 100 Orange St., Chelsea.

DEAN, Francis W. (1883), V. P., 1895-1897; Mill Engr. and Arch., Exchange Bldg., 53 State St.

DENSMORE, Edward D. (Associate, 1898), Cons. Engr., Densmore & LeClear, 88 Broad St., and 52 River St.

DE WOLF, John O. (1901), Mech. and Mill Engr., 159 Devonshire St., and 36 Hawthorn St., Cambridge.

DOUGLAS, Courtney Carlos (1904; Associate, 1908), Steam Turbine Engr., Genl. Elec. Co., 84 State St., and 15 Glengarry St., Winchester.

DOW, Carl Stephen (1899; Associate 1905), Publicity Engr., with Walter B. Snow, 170 Summer St., and *for mail*, 24 Milton Sq., Hyde Park.

DUNCAN, Albert Greene (1909), Treas., Chicopee Mfg. Co., and *for mail*, 70 Kilby St.

ENGLISH, William T. (1902), Pres., English & Flett (Inc.), 226 Congress St., and 185 W. River St., Hyde Park.

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Boston (Continued)

FARRAR, Chas. O. (1902), Supt. Constr., Otis Elevator Co., 53 State St., and *for mail*, 10 Thurston St., Winter Hill Sta.

FLATHER, Frederick A. (1892), Treas., Boott Mills, 79 Milk St., and *for mail*, 68 Mansur St., Lowell.

FRENCH, Edward Vinton (1905), V. P. and Engr., Arkwright Mut. Fire Ins. Co., 31 Milk St., and *for mail*, 22 Park St., West Lynn.

FROTHINGHAM, Francis Edward (1898; 1904), Engr., Perry, Coffin & Burr, 60 State St., and 857 Beacon St.

GALLOUPE, Francis E. (1880), Mech. Engr., Room 336, Old South Bldg., and 192 Marlborough St.

GLEASON, Gilbert Howe (Junior, 1906), Green Fuel Economizer Co., 702 Oliver Bldg., and 146 Jewett St., Newton.

GOODALE, A. M. (1886), Manager, 1898-1901; Life Member; Treas., Boston Mfg. Co., 40 State St., and 16 Coolidge Ave., Cambridge.

GOODING, Chas. S. (1904), Mech. Engr. and Solicitor of Patents, 28 School St., and *for mail*, 116 Marion St., Brookline.

GREENE, Levi R. (1893), Cons. Engr., Walworth Mfg. Co., 132 Federal St., and *for mail*, 35 Concord Ave., Cambridge.

HALE, Robt. Sever (1894; 1897; 1899), Supt. Sales Dept., Edison Elec. Ill. Co., 39 Boylston St., and for mail, care Tennis and Raquet Club, 939 Boylston St., Back Bay.

HART, Robert W. (Associate, 1909), New England Mgr., Olds Gas Power Co., and 11 Glengarry St., Winchester.

HARTWELL, Hiram B. (Junior, 1903), Ch. Draftsman, Crosby Steam Gage & Valve Co., and *for mail*, 208 Brown St., Waltham.

HAVEN, Henry M. (1904), Refrigerating Engr., F. W. Dean, Room 1112, Exchange Bldg., 53 State St., and *for mail*, 27 Lloyd St., Winchester.

HAWKINS, John T. (1884), Manager, 1886-1889; Mech. Engr., 68 Westland Ave.

HAYES, Frank H. (1906), Pres., F. H. Hayes Mchy. Co., 101-103 High St., and *for mail*, 46 William St., Cambridge.

HAYES, J. Howard (Junior, 1908), Partner, F. H. Hayes Mchy. Co., and *for mail*, 46 William St., Cambridge.

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Boston (Continued)

HEERMANN, Frederick M. (1907), Engr. and Spec. Insp., Factory Mut. Fire Ins. Companies, 31 Milk St.

HILDRETH, William Osgood (Junior, 1888), Engr., Lamson Cons. Store Service Co., 161 Devonshire St., and *for mail*, 643 Westford St., Lowell.

HILL, Walter L. (Associate, 1902), Hill-Ray Engrg. Co., 110 State St., and Arlington.

HINDS, Fred Sumner (1907), Arch. and Mech. Engr., 19 Milk St., and Newton Centre.

HOGAN, Patrick Henry (Associate, 1904), N. E. Mgr. Dearborn Drug & Chemical Wks., 8 Oliver St., and Rosindale.

HOGUE, Oliver D., Mgr. Power Pump Dept., Goulds Mfg. Co., 1106 Tremont Bldg.

HOSMER, Sidney (1902), Elec. Engr., Edison Elec. Ill. Co., 39 Boylston St., and 74 Bay State Rd.

HUGHES, Edward F. (Associate, 1902), Agt., Chapman Valve Mfg. Co., 94 Pearl St., and *for mail*, 12 Hawthorne St., Watertown.

HUMPHREYS, Walter (Associate, 1902), Instr. and Registrar, Mass. Inst. of Tech., and 343 Clinton Rd., Brookline.

HUSSEY, Oren S. (1897), Treas., Frank Ridlon Co., 200 Summer St., and Brookline.

HUTCHISON, Richard (1900; 1904), Asst. Dist. Sales Mgr., Babcock & Wilcox Co., 10 P. O. Sq.

JACKSON, Dugald C. (1890), Mass. Inst. Tech., and D. C. & Wm. B. Jackson, Engrs., Chicago, Ill., and Boston, Mass.

JENNINGS, Edward M. (Junior, 1901), Sales Agt., Parson Mfg. Co., Room 509, 53 State St., and 58 Pleasant St., Winthrop.

KENDRICKEN, Paul H. (1891), Ingalls & Kendricken, Inc., 80 Sudbury St., and Parker House.

KEOUGH, William T. (1900), Life Member; Business Agt., Boston Public Schools, Mason St., and *for mail*, 324 Saratoga St., E. Boston.

KILGOUR, Dwight F. (1905; 1909), Mech. Engr., Chas. E. Cotting, Trustee, 11 Pemberton Sq., and P. O. Box 129, Lexington.

KIMBALL, Richard D. (1906), 6 Beacon St., and 42 Irving St., West Medford.

KUNHARDT, Lewis Henry (1905), V. P. and Engr., Boston Mfrs. Mut. Fire Ins. Co., 31 Milk St., and for mail, 303 Franklin St., Melrose Highlands.

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Boston (Continued)

LACOUNT, Henry Osgood (1907), Engr. and Asst. Secy., Insp. Dept., Asso. Factory Mutual Fire Insurance Co., 31 Milk St., and *for mail*, 124 College Ave., West Somerville.

LANZA, Cav. Gaetano (1882), Prof. Theor. and App. Mech., in charge of Dept. Mech. Engrg., Mass. Inst. of Tech., and 22 W. Cedar St.

LAWTON, M. A. (1893), Treas., A. J. Morse & Son, 221 High St., and Newton.

LELAND, Sanford Daniels (1900), Pres. and Genl. Mgr., Mfg. Equipment & Engrg. Co., 209 Washington St., and *for mail*, 114 Highland Ave., Winchester.

LIBBEY, Joseph Harold (1901; 1904; 1908), Mech. and Elec. Engr., Stone & Webster Engrg. Corp., 147 Milk St., and 14 Parsons St., West Newton.

LUCKER, Grover Cleveland (Junior, 1907), Agt., Ingersoll-Rand Co., 73 Oliver St., and 50 Lowden Ave., West Somerville.

McCLINTOCK, Edwd. H. (1901; 1905), Constr. Engr., with Chas. T. Main, Engr., 45 Milk St., and *for mail*, 222 Willow Ave., West Somerville.

MACLAREN, James G. (Associate, 1908), Engr., Lamson Cons. Store Service Co., and *for mail*, 109 Walter St., Roslindale.

MacKENZIE, Donald (Junior, 1902), Mech. Engr., Swift & Co., 34 N. Market St., and *for mail*, 11 Alpha Rd., Dorchester.

MAIN, Charles T. (1885), Mill Engr. and Arch., Room 911, 45 Milk St., and 14 Herrick St., Winchester.

MELLEN, Edwin D. (1890), 60 State St., and *for mail*, 1590 Massachusetts Ave., Cambridge.

MERRILL, Frank A. (Associate, 1902), Mgr., The Merrill Co., 19 Pearl St., and *for mail*, 556 Main St., Malden.

METCALF, Leonard (1904), Cons. Civil Engr., Metcalf & Eddy, 14 Beacon St., and Concord.

MILLER, Edward Furber (1888; 1891), Prof. Steam Engrg., Mass. Inst. Tech., and 538 Ward St., Newton Centre.

MONKS, Archibald G. (Associate, 1908), Partner, Monks & Johnson, 7 Water St., and Brookline.

MOULTROP, Irving E. (1902), Manager, 1908-1911; Mech. Engr., Edison Elec. Ill. Co. of Boston, 39 Boylston St., and 812 Blue Hill Ave., Dorchester.

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Boston (Continued)

MURPHY, Frederick E. (1897), Ch. Engr., Amer. Sugar Refining Co., Standard Refinery, Granite St., and *for mail*, 31 Sagamore St., Dorchester.

PAINE, Sidney B. (1908), Mgr. Mill Power Dept., Genl. Elec. Co., 84 State St.

PARK, William R. (1889), Supt., Hancock Inspirator Co., 23 Watson St., Sta. A, and 30 Prospect St., Taunton.

PARKER, Charles H. (1903; 1903), Asst. Supt., Generating Dept., Boston Edison Co., 3 Head Pl., and 260 Clarendon St.

PARKER, Lee Hamilton (1896), Ry. Engr., Stone & Webster Engrg. Corp., 147 Milk St., and 8 Webster St., Brookline.

PATTERSON, A. W., Jr. (1897; 1903), Mgr., Invincible Elec. Renovator Sales Co., 409 P. O. Sq. Bldg.

PERRIGO, Oscar Eugene (1904), Cons. Mech. Engr. and Pres., Modern Systems Cor. Sch., 6 Beacon St., and 151 Lynnfield St., Peabody.

PERRY, Frank B. (1902; 1908), Mill Power Dept., Genl. Elec. Co., 84 State St., and *for mail*, 71 Athol St., Allston.

PIERCE, Richard H. (1894), Cons. Engr., 35 Congress St., and *for mail*, 462 Walnut St., Newtonville.

POWELL, E. Burnley (Junior, 1904), Stone & Webster Engrg. Corp., 147 Milk St.

RANDALL, Dwight T. (1904), A. D. Little Co., 93 Broad St.

RILEY, Joseph C. (1909), Asst. Prof. Mech. Engrg., Mass. Inst. of Tech.

RIVETT, Edward (1904), Pres. and Mgr., Rivett Lathe Mfg. Co., Crosby St., Brighton.

ROBINSON, Henry Smith (1896), Cons. Engr., 28 State St., and 97 Main St., Andover.

RUSSELL, W. B. (Junior, 1906), Director Franklin Union, and *for mail*, No. 58 Arborway, Jamaica Plain, Boston, Mass.

SCHAEFFLER, Joseph C. (1900; 1904; 1907), Mech. and Civil Engr., Tremont Bldg., also Member of Firm, Schaeffler & Martin, Archs. and Engrs., and 6 Westwood Rd., Somerville.

SCHROEDER, Frederick A. (Associate, 1907), Mech. and Elec. Engr., Mass. Ltg. Cos., and *for mail*, Hotel Oxford.

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Boston (Continued)

SCHUMAKER, John Staubley (Associate, 1905), Firm of Schumaker & Santry, 141 Milk St., and 624 Salem St., Malden.

SCHWAMB, Peter (1884), Prof. Mch. Design and Dir. Mech. Laboratories, Mass. Inst. Tech., and *for mail*, 33 Academy St., Arlington.

SHEDD, Frank Edson (1906), V. P. and Ch. Engr., Lockwood, Greene & Co., Industrial and Hydraulic Engrs., 93 Federal St.

SHERBURNE, Kenneth (Junior, 1904), 363 Marlborough St.

SHIEBLER, Marvin (1905; 1909), Stone & Webster Engrg. Corp., 147 Milk St., and *for mail*, Mass. Chambers, also Gas Engr., 30 Church St., New York, N. Y.

SINER, J. B. (1891), Factory Ins. Appraiser, 31 Milk St., Room 510, and *for mail*, 156 Hawthorne St., Malden.

SMITH, Ephraim (1898), Colonial Steel Co., 84 High St., and 20 Shirley Ave., Winthrop Beach.

SMITH, Sidney L. (1880), Mech. Engr., 90 Elm Hill Ave., Roxbury.

SNOW, Sylvester M. (1890), Snow & Humphreys, Room 62, 85 Water St., and *for mail*, 257 Gano St., East Side Sta., Providence, R. I.

SNOW, Walter B. (1898), Publicity Engr., 170 Summer St., and 29 Russell Ave., Watertown.

SNOW, Wm. Gage (1905), New England Mgr., Warren Webster & Co., of Camden, N. J., Penn Mutual Bldg., and 11 Devon Rd., Newton Centre.

STARKWEATHER, William G. (1897), New England Rep., Robt. Wetherill & Co., Inc., and A. L. Ide & Sons, 149 Pearl St., 17 Gibson Rd., Newtonville.

STODDARD, Geo. Howland (1897), Treas. and Mgr., Quincy Market Cold Storage & Warehouse Co., 133 Commercial St., and 197 Beacon St.

TAFT, Theo. H. (Junior, 1903), Inst. Mech. Engrg., Mass. Inst. of Tech., and *for mail*, 1 Avon Pl., Cambridge, "B."

THOMPSON, Edward C. (Junior, 1909), Mech. Engr. and Mgr., C. W. Trainer Mfg. Co., and *for mail*, 89 Pearl St.

TITCOMB, Roland Elbert (Junior, 1904), Walworth Mfg. Co., and *for mail*, Ipswich.

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Boston (Continued)

TOLMAN, James P. (1894), Pres., Samson Cordage Works, 88 Broad St., and *for mail*, 84 Highland St., West Newton.

TUFTS, Leonard (1901), 1st V. P., Am. Soda Fountain Co., 282 Congress St., and *for mail*, Pinehurst, N. C.

WALWORTH, Arthur C. (1886), Manager, 1894-1897; Pres., Walworth Constr. & Supply Co., 100 Pearl St., and 931 Centre St., Newton Centre.

WARNER, Robt. L. (1899), Warner, Tucker & Co., 35 Congress St., and 45 Garrison Rd., Brookline.

WATSON, Wm. (1886), Secy., Amer. Acad. Arts and Science, 107 Marlborough St.

WEBBER, William Oliver (1881), Cons. Engr., 432 Exchange Bldg.

WHALEY, W. B. Smith (1889; 1896), Mech. Engr., 1012 Tremont Bldg., and 19 Parker St., Newton Center.

WHITING, Charles W. (1885; 1895), Cons. Engr., 33 Broad St., and 62 Kirkland St., Cambridge.

WILLIAMS, Llewellyn (1907), Supt. Engr., United Fruit Co., 131 State St., and 27 Rockland Ave., Malden.

WILLISTON, Belvin Thomas (1905), Ch. Draftsman, Hancock Inspirator Co., 23 Watson St., and 3 Monmouth St., Somerville.

WILSON, Archibald H. (Associate, 1908), Asst. Ch. Draftsman, Stone & Webster Engrg. Corp., 147 Milk St., and 21 Butler St., Lawrence.

WINTHER, Chas. A. G. (1897; 1900), Mech. Engr., Mfrs.' Agt., 170 Summer St., and 132 Boston Ave., Somerville.

WOODBURY, C. J. H. (1880), Cons. Engr., 45 Milk St., and *for mail*, 51 Baltimore St., Lynn.

WOODS, Frank F. (Associate, 1904), Pres. and Treas., S. A. Woods Mch. Co.

Brockton

WASHBURN, William S. (1891), 1363 Main St., Campello Station.

Brookline

APPLETON, Chas. B. (1894), Mech. Engr., Netherlands Road.

BALDWIN, Stephen W. (1880), Manager, 1887-1890; V. P., 1890-1892; Mech. Engr., 29 Hyslop Road.

KENRICK, Alfred Eugene (1896), Kenrick Bros., 214 Washington St., and *for mail*, 71 Gorham Ave.

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Cambridge

BROOKS, Edwin C. (1884), Supt. Water Wks., City Hall, and *for mail*, 255 Lexington Ave.

CROTHERS, Charles Edward, Jr. (Junior, 1905), Mech. Engr., 1663 Cambridge St.

GALE, Horace B. (1886), Ch. Engr., Simplex Elec. Htg. Co., 85 Sidney St., and *for mail*, Natick.

HOLLIS, Ira N. (1884), Prof. Engrg., Harvard Univ.

KENNEDY, F. Lowell (Junior, 1903), Asst. Prof. Drawing and Mch. Design, Harvard Univ., and *for mail*, 43 Appleton St.

LEAVITT, E. D. (1880), V. P., 1881-1882; Pres., 1882-1883; Cons. Engr., 33 Garden St.

MARKHAM, Edward R. (1903), Inst. Mech. Engrg., Rindge Manual Training Sch., Harvard Univ., and 52 Lee St.

MARKS, Lionel S. (1897; 1904), Asst. Prof. Mech. Engrg., Harvard Univ., and *for mail*, 88 Lake View Ave.

SWAIN, George F. (1883), Prof. Civ. Engrg., Graduate Sch. Engrg., Harvard Univ., and Mem. Boston Transit Com., and Cons. Engr., Mass. R. R. Com., and *for mail*, 435 Marlboro St., Boston.

Cambridgeport

LONG, Jeremiah C. (1905), Ch. Engr., Boston Woven Hose & Rubber Co., and *for mail*, 2 Emery St., Everett.

NORRIS, Almon E. (1900), Ch. Engr., Mead-Morrison Mfg. Co., 31 Main St., and *for mail*, 57 Avon Hill St., Cambridge.

Charlestown

FALLON, John Bernard, Jr. (Junior, 1905), Supt., 50 Cambridge St., and 489 Walnut Ave., Jamaica Plain.

Chelsea

McEVOY, Dermot (1906), Revere Rubber Co., and *for mail*, 25 Prospect Ave., Revere.

Cheshire

COLT, Samuel Gilbert (Junior, 1899), Richmond Iron Wks., and 276 South St., Pittsfield.

HOSMER, Amos G. (1902), Mech. Supt., Lancaster Mills, 1 Green St., and *for mail*, 40 Chestnut St.

Clinton

SWINSCOE, Chas. (1887), Cons. Engr., Clinton Wire Cloth Co., and *for mail*, P. O. Box 32.

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Dorchester Center

MASON, William B. (1893), Pres., Mason Regulator Co., 1190 Adams St., and 15 Medway St.

East Boston

MIDDLETON, Percy Howe (1894; 1901), V. P., H. I. Crandall & Son Co., 102 Border St.

MONTEAGLE, Robt. Chas. (1904), Ch. Engr., Atlantic Wks., and *for mail*, 8 Winthrop St., Winchester.

ROBINSON, Edward P. (1891), Supt., Atlantic Wks., 80 Border St.

TOBEY, Wm. L. (1890), Mech. Engr., Lockwood Mfg. Co., and *for mail*, 74 Washington Ave., Winthrop.

East Bridgewater

McLEAN, Robert Walter (Junior, 1907), Carver Cotton Gin Co.

East Cambridge

ABORN, Geo. Pennell (1889; 1892), Mgr., Blake & Knowles Steam Pump Wks., and *for mail*, 136 Corey St., West Roxbury, Boston.

MURRAY, Arthur F. (Junior, 1908), Blake & Knowles Steam Pump Wks.

PARKER, Austin Wilbur (1892; 1901), Mech. Engr., Blake & Knowles Steam Pump Co., and *for mail*, 694 Main St., Woburn.

PERKINS, George Howard (Junior, 1900), Supt. Refineries, Warren Bros. Co., Potter St., and *for mail*, 5 Irving Terrace, Cambridge.

WORCESTER, H. E. (Associate, 1903), Supt., Revere Sugar Refinery, and for mail, 10 Kirkland Rd., Cambridge.

Fall River

HENRY, William Thomas (1887), 30 Borden Blk.

Fitchburg

DILLON, Frederick N. (1902), Treas., D. M. Dillon Steam Boiler Wks., and 16 Prospect St.

SHELDON, Thos. C. (1884), Pres., Fitchburg Duck Mills, and *for mail*, 8 School St.

SIMONDS, Daniel (1892), Pres., Simonds Mfg. Co., 35 North St., and 132 Pleasant St.

Greenfield

WELLS, Frank O. (1903), Pres., Wells Bros. Co., and *for mail*, 8 Grinnell St.

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Holyoke

BAKER, Dickerson Gregory (1905), Cons. Engr., Samuel M. Green, Inc., and *for mail*, Willimantic, Conn.

BENNETT, George G. (Junior, 1903), Engrg. Dept., Amer. Thread Co., and *for mail*, 30 Arlington St.

CHASE, Henry Mayo (1906), Mech. Engr., Deane Steam Pump Co., and 219 Elm St.

FLEMING, Wills Maine (Junior, 1905), Engr. in charge Drawing Room, Deane Branch, Internatl. Steam Pump Co., and *for mail*, 370 Cabot St.

JENNESS, Chas. Harvey (1904), Designing Engr., Deane Steam Pump Co., and *for mail*, 106 Grape St., Chicopee.

LOBBEN, Peder (1895), Mech. Engr., P. O. Box 243.

MILLER, George H. (1906), Genl. Engr., Am. Thread Co., 549 Main St., and *for mail*, 135 Lincoln St.

NEWCOMB, Chas. L. (1883), Pres., Mech. Engr., and Genl. Mgr., Deane Steam Pump Co., and *for mail*, 57 Fairfield Ave.

NEWCOMB, Robert E. (Junior, 1907), M. E., Deane Steam Pump Co., and 57 Fairfield Ave.

VALENTINE, Warren P. (Junior, 1904), Designing Engr., Gas Eng. Dept., Deane Steam Pump Co., and 3 Ferguson Pl.

Hopedale

BURBANK, Louis S. (1898), Asst. Ch. Draftsman, M. E. Draper Co., and *for mail*, 20 Bancroft Park.

Hyde Park

BIXBY, Walter (Junior, 1907), Mech. Engr., 17 Brainard St.

DOWST, F. B. (1892), B. F. Sturtevant Co., and West Roxbury.

SPARROW, Ernest P. (1896), B. F. Sturtevant Co., and *for mail*, 18 Gleason St., New Dorchester.

SUCK, Adolph (1905), Arch. and Engr., 94 Arlington St.

Indian Orchard

NICKERSON, Ralph R. (Junior, 1907), Pur. Agt., Chapman Valve Mfg. Co., and 19 Essex St., Holyoke.

ROSS, Edward L. (Junior, 1890), Mech. Engr., Chapman Valve Mfg. Co., 156 Oak St.

THRELFALL, Wm. V. (1902), Genl. Mgr., Chapman Valve Mfg. Co.

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Lawrence

DIMAN, Geo. Henry (1904), Cons. Engr., Wood Worsted Mill, and *for mail*, 62 Bailey St., S. Lawrence.

JEALOUS, Arthur R. (Junior, 1908), Draftsman, Am. Woolen Co., and *for mail*, 101 Franklin St.

MELLOR, Hiram L. (1908), Pres. and Mgr., Lawrence Pump & Eng. Co., and *for mail*, P. O. Box 70.

PARKER, Walter Edward (1881), Life Member; Agt., Pacific Mills, and *for mail*, 217 Haverhill St.

SCHWARZ, Franz H. (Junior, 1888), Mech. Engr., Lower Pacific Mills, and *for mail*, 167 Ferry St.

WALLACE, Fred A. (Associate, 1896), M. M., Pacific Mills, and 44 Thorndike St.

Lee

STEVENSON, Louis T. (Junior, 1907), Engr., Mountain Mill Paper Co., and *for mail*, 28 Reed St., Pittsfield.

Lexington

WATSON, Frank (Junior, 1893).

Lowell

AMES, Geo. Edgar (1904), Mech. Supt., Lawrence Mfg. Co., and 119 Hall St.

CONNELL, John J. (1903), Agt., Tremont & Suffolk Mills, and *for mail*, 166 Pawtucket St.

NOURSE, Franklin (1896), Agt., Lawrence Mfg. Co., and 53 Mansur St.

PERKINS, G. Hawthorne (Associate, 1907), Head Textile Engrg. Dept., Lowell Textile Sch.

SAFFORD, Arthur Truman (1904), Asst. Engr., Locks and Canals, Cons. Hyd. Engr., 66 Broadway, and 30 Talbot St.

STEVENS, John A. (1902), Cons. Engr., 107 Merrimack St., and 78 Hanks St.

Lynn

BITTERLICH, Walter J. (Junior, 1906), Mch. Designer, Bresnahan Shoe Mchy. Co., and *for mail*, 6 Woodville Pk., Roxbury.

HANZLIK, Henry Y. (Junior, 1903), Steam Turbine Dept., Genl. Elec. Co., and *for mail*, 27 Grosvenor Pk.

JOHNSON, Werner (1903), Asst. Engr., Turbine Dept., Genl. Elec. Co., and *for mail*, 88 Grove St., West Lynn.

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Lynn (Continued)

ORD, Henry C. (1905), Genl. Elec. Co., and *for mail*, 170 S. Common St.

SMITH, Charles P. (Junior, 1888), Mech. Engr., Genl. Elec. Co., and *for mail*, 53 Harwood St.

Malden

TENNEY, Albert Ball (1896; 1904), Genl. Mgr., 137 Pleasant St., and 111 Tremont Ave., Everett.

Melrose

DIETZ, Carl F. (Junior, 1903), Cons. Engr., 306 Main St.

Melrose Highlands

HIGGINS, George Frederick (1886; 1906), Cons. Engr., 63 Botolph St.

Mittineague

BARSTOW, Francis Loring (Junior, 1905), Ch. Engr., Mittineague Paper Co., and Woronoco Paper Co., Woronoco.

New Bedford

COLBURN, George L. (Associate, 1903), Prin. Mech. Dept., New Bedford Textile Sch., and *for mail*, 22 Pope St.

CUSHMAN, Herbert E. (Associate, 1898), Treas. and Genl. Mgr., Morse Twist Drill & Mch. Co., and 144 Hawthorn St.

GLADDING, Wanton Martin (1907), Mech. Supt., Morse Twist Drill & Mch. Co., and *for mail*, 100 Fifth St.

REED, Fred M. (1906), Mech. Engr., Morse Twist Drill & Mch. Co.

STETSON, George R. (1880), V. P., 1898-1900; Pres. and Genl. Mgr., New Bedford Gas & Edison Light Co., 125 Middle St., and 7 Anthony St.

Newton

BAKER, Charles F. (1891), 146 Jewett St.

Newton Highlands

THOMPSON, Sanford E. (1909), Cons. Engr.

Newton Upper Falls

MILLS, Charles (1907), Supt. of Wks., Saco & Pettee Mch. Shops.

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North Adams

HUNTER, James D. (1894), V. P., Hunter Mch. Co., and 48 Wall St.

North Plymouth

DAMON, John H. (Associate, 1908), M. M. and Expert on Rope Transmission, Plymouth Cordage Co., and 258 Court St.

Peabody

BROOKS, Paul Raymond (Junior, 1905), Genl. Mgr., Mch. Sales Co.

Pittsfield

ABBOTT, Chas. Carroll (1905), Mgr., Triumph Voting Mch. Co., and *for mail*, 237 2nd St.

MITCHELL, Guy Edward (1903), Genl. Mgr., Alden Sampson Mfg. Co., and *for mail*, 67 Elizabeth St.

POWER, Pomeroy W. (1903), Mech. Engr., Genl. Elec. Co., and *for mail*, 306 South St.

ROBBINS, John L. (Junior, 1908), Asst. Engr., Robbins, Gamwell & Co.

SPONSEL, C. W. (1902), Mfg. Supt., Genl. Elec. Co., and 22 Huntington St., Hartford, Conn.

Quincy

BAILEY, T. S. (1896; 1905), Ch. Engr., Electric Boat Co., and 17 Park St., Wollaston.

CRAIN, John J. (1896; 1908), Elec. Engr., Fore River Shipbuilding Co., 86 Revere Rd., and 59 Biglow St.

Somerville

BOYER, Chas. Warren (1900; 1907), Mech. Engr., F. H. & C. W. Boyer, Box 10, and 50 Highland Ave.

ELDREDGE, A. H. (1894), Cons. Engr., New Eng. States Office, North Packing & Prov. Co., and *for mail*, 93 Laurel St., Melrose.

South Boston

BLOOD, Chas. W. H. (1902), V. P. and Mech. Engr., S. A. Woods Mch. Co., Door St., and *for mail*, 19 Floyd St., Winthrop Highlands.

DURFEE, Walter C. (Junior, 1908), Exper. Engr., Walworth Mfg. Co., and 40 Eliot St., Jamaica Plain.

HIBBARD, Thomas (1889), Mech. Engr. and Treas., Geo. Lawley & Sons Corp., City Point, and *for mail*, 17 Nottingham St., Dorchester.

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South Boston (Continued)

MATTICE, Asa M. (1889), Mgr., 1903-1906; Mgr. of Wks., Walworth Mfg. Co.

OSTEMAN, Carl G. (1907), Mech. Engr. and Designer, S. A. Woods Mch. Co., and 43 Newport St., Dorchester.

TILDEN, James A. (1885), Genl. Mgr. for Hersey Mfg. Co., and 66 Beacon St., Hyde Park.

WITHINGTON, Sidney (Junior, 1908), Exper. Dept., Walworth Mfg. Co., and *for mail*, 35 Bay State Rd., Boston.

South Framingham

KEYES, Frederic H. (1902), Genl. Mgr., Robb-Mumford Boiler Co., and *for mail*, 117 Mt. Vernon St., Newtonville.

SCOTT, Henry Francis (1907), M. M., Dennison Mfg. Co., and 71 Union Ave.

South Yarmouth

DAVIS, Chas. Henry (1890).

Springfield

BAUSH, William H. (1904), M. E. and in charge Sales for Confectioners Mchy. & Mfg. Co., and 419 Sumner Ave.

BOCORSELSKI, F. E. (1907), Supt. and Designer, Baush Mch. Tool Co., and 384 N. Main St.

GREEN, Samuel M. (1890), Cons. Engr., Hitchcock Bldg., 318 Main St., and 325 Long Hill St.

LEITCH, Meredith (1898), Cons. Engr., 33 Lyman St., and *for mail*, 229 Atwater Rd.

RIDER, Thomas J. (1894), Partner, J. B. Chapman Co., 51 Taylor St., P. O. Box 1409, and 90 Westminster St.

RYDER, Malcolm P. (Associate, 1901), Engr., Witherbee Igniter Co., Arch St. and Birnie Ave., and *for mail*, 11 Warren St., White Plains, N. Y.

Swampscott

WHITING, S. B. (1880), Manager, 1880-1882; V. P., 1882-1883; Galloupe's Point.

Taunton

COLLINS, Edward C. (Associate, 1907), Mason Mch. Wks., and *for mail*, 131 Winthrop St.

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Taunton (Continued)

CUTTER, George Albert (1896; 1904), Genl. Mgr., Cell Drier Mch. Co., and 47 Prospect St.

GREENSMITH, Jas. E. (1892), Genl. Supt., Mason Machine Wks., and *for express*, 192 Winthrop St.

Tufts College P. O.

ANTHONY, Gardner C. (1884), Dean Engrg. Dept., Tufts College.

CHASE, Charles H. (1902), Prof. Steam Engrg., Tufts College, and 39 Lincoln St., Stoneham.

Waltham

BURNHAM, Harry A. (1898; 1902), Ridgewood Terrace.

EATON, Henry Chas. (Associate, 1908), Foreman, Engrg. Dept., Waltham Watch Co.

Waverly

KELLOGG, Alfred S. (1908), Partner, Richard D. Kimball Co.

Westfield

CUSHING, Geo. H. (1891), Genl. Supt., H. B. Smith Co., and *for mail*, 37 Broad St.

West Lynn

ALEXANDER, Magnus W. (1906), Genl. Elec. Co.

MOSS, Sanford A. (1903), Engr., Turbine Research Dept., Genl. Elec. Co., and 58 Beacon Hill Ave., Lynn.

RICE, Richard H. (1890), Mgr., 1904-1907, Genl. Elec. Co., and 124 Ocean St.

Winchendon

WHITNEY, Baxter D. (1886), Partner, Firm Baxter D. Whitney & Son.

WHITNEY, Wm. M. (Associate, 1886).

Wollaston

STEVENS, Jesse F. (Associate, 1904), 14 Prospect Ave.

Worcester

ALDEN, George I. (1880), V. P., 1891-1893; Treas. and Cons. Engr., Norton Co., and *for mail*, 48 Queen St.

ALLEN, Charles M. (1901; 1903), Prof. Exp. Mech. Engrg., Worcester Poly. Inst., and 10 Dean St.

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Worcester (Continued)

ANGSTROM, C. Jonas (1908), Designing Engr., Am. Steel & Wire Co., 94 Grove St., and 11 Harvard St.

BACKLIN, Axel F. (1902), Asst. to Ch. Engr., Amer. Steel & Wire Co., and 17 Holden St.

BIRD, William W. (1889; 1891), Prof. Mech. Engrg., and Director Washburn Shops, Worcester Poly. Inst., and 10 Harvard St.

CARROLL, Elbert Henry (1900), Supt., Morgan Constr. Co., 21 Lincoln St., and *for mail*, Rutland Terrace.

COGHLIN, John P. (1901), Pres. and Treas., Coghlin Elec. Co., 234 Main St., and *for mail*, Box 884.

DANIELS, Fred Harris (1886), V. P., 1902-1904; Life Member; Chief Engr., Amer. Steel & Wire Co., 94 Grove St., and *for mail*, 214 Salisbury St.

EDWARDS, Victor E. (1889; 1890), Life Member; V. P., Morgan Construction Co., 21 Lincoln St., Station A.

FAIRFIELD, Howard P. (1901), Instr. Worcester Poly. Inst., and *for mail*, 25 John St.

GALLAGHER, Robert Thomas (1906), Ch. Draftsman and Designer Engrg. Dept., Amer. Steel & Wire Co., and *for mail*, 12 Huntingdon Ave.

GEORGE, J. Rowley (1899), Mech. Engr., Morgan Constr. Co., 21 Lincoln St.

GIFFORD, Albert J. (Junior, 1903), Partner, W. H. Leland & Co., and *for mail*, 9 King St.

HIGGINS, John W. (Junior, 1902), Secy. and Genl. Mgr., Worcester Pressed Steel Co., North Ave., and *for mail*, 184 Highland St.

HIGGINS, Milton P. (1880), V. P., 1901-1902; Pres., Norton Emery Wheel Co., and *for mail*, 228 West St.

HILL, Edgar Logan (Junior, 1908), Asst. Dist. Engr., Am. Steel & Wire Co., and *for mail*, P. O. Box 553.

JEFFERIES, E. A. W. (1892), Mech. Engr., Morgan Constr. Co., and 14 Westland St.

LARSSON, Thure L. F. (1905), Mech. Engr., 34 Holden St.

LATHAM, Harry M. (1908), Mech. Engr., Am. Steel & Wire Co., and *for mail*, 94 Grove St.

LOGAN, James (Associate, 1904), 1st V. P. and Genl. Mgr., U. S. Env. Co., 75 Grove St., and *for mail*, 222 Salisbury St.

MERKT, Gustav A. (Associate, 1908), Designing Engr., Am. Steel & Wire Co., and *for mail*, 8 Blair St.

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Worcester (Continued)

MORGAN, Charles H. (1881), Manager, 1884-1887; Pres., 1899-1900; Pres., Morgan Constr. Co., and Morgan Spring Co., 21 Lincoln St., and *for mail*, 28 Catherine St.

MORGAN, Paul B. (1891; 1900), Treas., Morgan Constr. Co., and Morgan Spring Co., 21 Lincoln St., and 21 Cedar St.

MORGAN, Ralph Landers (1900; 1902), Pres., R. L. Morgan Co., Cambridge St., and 96 William St.

MORSE, William Horace (1901; 1903), Secy., Morgan Constr. Co., and 167 Pleasant St.

PARKER, Chas. D. (1886), Mech. Engr., A. Burlingame Co., 22 Cypress St., and *for mail*, 47 Fales St.

RAWSON, Louis W. (Associate, 1904), Supt., Washburn Shops, Worcester Poly. Inst., and 138 Elm St.

READ, Carleton A. (1893; 1900), Prof. Steam Engrg., Worcester Poly. Inst., and 28 Lancaster St.

REED, Chester Turner (Junior, 1906), Pur. Engr., Reed & Prince Mfg. Co., and *for mail*, 1215 Main St.

REED, Edgar Howard (Junior, 1905), Supt., Reed & Price Mfg. Co., Duncan Ave., and *for mail*, 21 Stoneland Road.

RICE, Alva C. (1890), Hyd. and Mech. Engr., State Mut. Bldg., and 3 Oberlin St.

ROCKWOOD, Geo. I. (1891), Manager, 1903-1906; Life Member; Cons. Engr., 62 Summer St.

SCOTT, Geo. H. (1893), V. P., Dodge Sander Co., 172 Union St., and *for mail*, 30 Channing St.

SEARLE, Wilbur C. (Junior, 1909), Heald Mch. Co., and *for mail*, 10 Townsend St.

SMITH, Alton Lincoln (1904), Prof. Drawing and Mch. Design, Worcester Poly. Inst., and *for mail*, 27 Washington Ave.

SMITH, Harold B. (1894), Prof. Elec. Engrg., Director Elec. Eng. Dept., Worcester Poly. Inst., and 20 Trowbridge Rd.

TROTZ, J. O. E. (1906), Cons. Engr., 20 Green Lane.

WILSON, J. Frederick (1891), W. & S. Mfg. Co., Die Making and Metal Stamping, 9 Hunt St., and 20 Moore Ave.

WYMAN, Horace (1892), Cons. Engr., 20 Harvard St.

Yarmouthport

DRAPER, Wm. L. (1899), Main St.

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MICHIGAN

Ann Arbor

ALLEN, John Robins (1894; 1903), Prof. Mech. Engrg., 215 New Engrg. Bldg. and 226 S. Ingalls St.

BURSLEY, Joseph Aldrich (Junior, 1906), Instr. in Mech. Engrg., Univ. of Mich., and *for mail*, 2515 Fairfield Ave., Fort Wayne, Ind.

COOLEY, M. E. (1884), V. P., 1901-1903; Prof. Mech. Engrg., and Dean Dept. Engrg., Univ. of Mich., and 1405 Hill St.

EMSWILER, John Edward (Junior, 1908), Instr. Mech. Engrg., Univ. of Mich.

FESSENDEN, Chas. Horace (Junior, 1909), Instr. Mech. Engrg., Univ. of Mich., Room 225, New Engrg. Bldg.

KNIGHT, Alfred H. (1909), Asst. Prof. Mech. Engrg., Univ. of Mich., and 1105 Oakland Ave.

MIGGETT, William Lincoln (1901), Supt., Engrg. Shops, Univ. of Michigan, and 712 S. Thayer St.

MOYER, James A. (1907), Asst. Prof. Mech. Engrg., in charge Mech. and Hyd. Laboratories, Univ. of Mich., and Norristown, Pa.

RAMSAY, James D. (1890) Ret., 515 Church St.

Battle Creek

METCALF, F. M. (1907), Mech. Engr., Amer. Steam Pump Co., and *for mail*, 99 Fremont St.

Bay City

HOWLETT, Lewis G. (Junior, 1903), Supt., Industrial Wks., and *for mail*, 415 N. Lincoln St.

PERRY, Ernest Blackman (1907), Mgr. and Engr., Industrial Wks., and 1515 Fifth St.

Calumet

WILLIAMS, Howard E. (1895; 1904), Ch. Draftsman, Calumet & Hecla Mining Co.

Detroit

ALDEN, Herbert W. (1908), Ch. Engr., Timken Detroit Axle Co., Clark Ave.

BALDWIN, Abram T. (1899; 1902), Life Member; Coke and Coal Dept., Solvay Process Co., and *for mail*, 814 Jefferson Ave.

BARBER, Clarence M. (1904), C. E. Smith, Hinchmann & Grylls, Archs. & Engrs., and *for mail*, 37 Stimson Pl.

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Detroit (Continued)

BARNES, Stuart Gray (1899; 1902), Engr., Solvay Process Co., and 310 West Blvd.

BEALL, Frank F. (Junior, 1902), Asst. Mgr., Mfg. Dept. Packard Motor Car Co., and 222 Putnam Ave. W.

BORNHOLT, Oscar Charles (Junior, 1904), Mech. Engr., Ford Motor Co., Piquette Ave. and Beaubien St., and 581 Woodward Ave.

BOURQUIN, James F. (Junior, 1907), Inspr. for Purchasing Dept., Chalmers-Detroit Motor Co., and *for mail*, 372 Parker Ave.

BRUSH, Frederick Farnsworth (Junior, 1900), Brush, Allen & Anderson, Engrs., 1331-32 Penobscot Bldg., and Grosse Isle.

COFFIN, Howard E. (1907), V. P., Chalmers-Detroit Motor Co., and 434 Cadillac Ave.

CONANT, Wm. S. (1895; 1904), Cons. Engr., Bank Chambers, 80 Griswold St., and *for mail*, 186 Seminole Ave.

COON, Thurlow Emmett (Junior, 1908), Sales Engr., in charge pumping Mchy. Dept., Fairbanks, Morse & Co., 86 Jefferson Ave.

DOUGHTY, A. J. (1902), Factory Mgr., Burroughs Adding Mach. Co., and *for mail*, 45 Virginia Ave.

DOW, Alex (1895). V. P., 1906-1908; V. P. and Genl. Mgr., Edison Ill. Co., 18 Washington Ave., and 50 Garfield Ave.

DUNHAM, George W. (1908), Ch. Engr., Hudson Motor Car Co., and 155 W. Euclid Ave.

DWYER, Emmet (Junior, 1907), Second Asst. Supt., Michigan Stove Co., and *for mail*, 692 Jefferson Ave.

EVANS, Henry O. (1896), Contr. and Designing Engr. of Special Mchy., and *for mail*, The Charlevoix 306.

FARMER, Thos. (1891), with Warner & Swasey Co., and *for mail*, 100 Melbourne Ave.

FOSTER, Horatio A. (1895), 12 Woodward Ave.

GRIMES, George Lyman (Junior, 1899), Supt., Detroit Stoker & Fdy. Co., and 2989 E. Grand Blvd.

HAZELTON, William S. (1909), Mgr. Metal Dept., Trussed Concrete Steel Co.

HINCHMAN, Theodore H., Jr. (1895; 1905), Cons. Engr., 708 Washington Arcade, and 223 Seminole Ave.

HODGE, Harry S. (1891), Pres., Detroit Twist Drill Co., and *for mail*, 83 Alfred St.

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Detroit (Continued)

JACKSON, Roscoe B. (Junior, 1904), Treas. and Genl. Mgr., Hudson Motor Car Co., Mack & Beaufait Aves., and 59 Glynn Court.

JOY, Francis B. (Associate, 1895), Supt., Detroit Htg. & Ltg. Co., and Welded Steel Bbl. Corp.

KAHN, Julius (1905), Pres., Trussed Concrete Steel Co., Trussed Concrete Bldg., and *for mail*, 63 Delaware Ave.

KALES, Wm. Robert (Junior, 1894), Ch. Engr., Whitehead & Kales Iron Wks., Randolph and Franklin Sts., and *for mail*, 195 Burns Ave.

KEEP, William J. (1893), V. P., 1903-1905; Supt., Mich. Stove Co., and *for mail*, 753 Jefferson Ave.

KIRBY, Frank E. (1880), Life Member; Engr., 609 Stevens Bldg.

LELAND, Henry Martin (1895), Genl. Mgr., Cadillac Motor Car Co., 1343 Cass Ave., and *for mail*, 69 Watson St.

LYMAN, Elihu Root (Junior, 1904), Supt., U. S. Heater Co., and *for mail*, 928 Lafayette Blvd.

McCOLL, J. R. (1903), Mech. Engr., Amer. Blower Co., and 545 John R St.

MAROT, Edward H. (Junior, 1903), Supt. of Agencies, Hyatt Roller Bearing Co.

MASON, Frederick H. (Associate, 1901), Specialist in Feed Water Purification and Htg., Power Plant Specialties, Brick and Concrete Chimney Constr., 612 Moffat Bldg., and 53 Seward Ave.

MATTSSON, A. George (1892), Ch. Engr., Great Lakes Engrg. Wks., and *for mail*, 516 Brush St.

NICKLIN, Ernest W. (1900; Associate, 1907), Mech. Engr., Smith Engrg. Co., 414 Moffat Bldg., and 421 Cadillac Ave.

OLIVER, E. C. (Junior, 1902), 62 Winder St.

PENDRY, W. Allen (1884), Cons. Engr., 65 Farnsworth Ave.

PESSANO, Antonio C. (1898), Pres. and Genl. Mgr., Great Lakes Engrg. Wks., and *for mail*, 652 Jefferson Ave.

REID, Edward Snover (Junior, 1896), Engr., Northern Eng. Wks., and 70 Pingree Ave.

RICHARDS, Chas. D. (Junior, 1904), Asst. Engr. of Tests, Solvay Process Co., and *for mail*, 1271 Monroe Ave.

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Detroit (Continued)

RUSSEL, Walter S. (1887), Manager, 1893-1896; V. P., 1897-1899; Life Member; Pres., and Genl. Mgr., Russel Wheel & Fdy. Co., Chene St. and Belt Line R. R.

SIBLEY, Mark M. (1904; Associate, 1904), Secy. and Treas., Sibley Houfley Mch. Co., 180 Brush St., and *for mail*, 410 Jefferson Ave.

SOPER, Ellis (1905; Associate, 1908), Pres., The Soper Co., 1110-11 Ford Bldg., and 54 Blaine Ave.

STILL, Frederick R. (1909), Ch. Engr. and Secy., Am. Blower Co., and 1400 Russell St.

STOUGHTON, Edwin R. (Associate, 1907), U. S. Heater Co., 251 Campbell Ave.

STRINGHAM, Joseph S. (1903), Constr. Engr., Solvay Process Co., and Pasadena Apts.

TAYLOR, Cecil Hamelin (Associate, 1908), Engr., Chalmers-Detroit Motor Co., and The Pasadena.

THRALL, George C. (1908), Genl. Mgr., Taylor Water Tube Boiler Co.

TREAT, Charles Henry (Junior, 1895), Am. Blower Co., and *for mail*, 98 Piquette Ave., E.

VINCENT, Jesse Gurney (Associate, 1908), Supt. of Inventions, Burroughs Adding Mch. Co., and *for mail*, 146 Merrick Ave.

WALKER, Fredk. Wiley (Junior, 1898), V. P. and Mech. Engr., Comstock-Haight-Walker Co., 1018-20 Ford Bldg., and *for mail*, Cedarburg, Ozankee Co., Wis.

WEIL, Charles L. (1895), Cons. Engr., 616 Union Trust Bldg., and *for mail*, 146 Alexandrine Ave., W.

WHITAKER, Henry E. (1891; 1904), Mech. Engr., Parke, Davis & Co., and *for mail*, 873 Trumbull Ave.

WILLS, C. Harold (1909), Ch. Engr. and Factory Mgr., Ford Motor Co., and *for mail*, 39 Bethune Ave. W.

Dowagiac

BECKWITH, Arthur K. (1907), Genl. Supt., Round Oak Stove Wks.

East Lansing

BISSELL, Geo. W. (1890; 1899), Prof. Mech. Engrg. and Dean of Engrg., Mich. Agricultural College.

POLSON, Joseph A. (Junior, 1906), Asst. Prof. Mech. Engrg., Mich. Agr. Col., P. O. Box 166.

WILCOX, C. C. (Junior, 1905), Foreman Mch. Shop, P. O. Box 158.

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Flint

MOTT, Chas. Stewart (Junior, 1898), Pres. and Genl. Mgr., Weston-Mott Co.

Grand Rapids

COLE, Dwight S. (1903), 159 S. Lafayette St.

REEVE, Charles D. (1891), Supt., Grand Rapids Brass Co., 156 Court St., and 197 Auburn Ave.

TOWER, Daniel W. (1900; 1907), Pres., Grand Rapids Brass Co., 162 Court St., and 531 Jefferson Ave.

Houghton

CORBETT, R. H. (1904), Rep., Nordberg Mfg. Co., 257 College Ave.

GLANVILLE, Jas. Gundry (1896; 1905), Supt., Isle Royale Stamp Mill.

HOOD, Ozni Porter (1904), Prof. Mech. and Elec. Engrg., Mich. College of Mines, and *for mail*, 84 Hubbell St.

Hubbell

BURGAN, A. L. (1897; 1899; 1903), Supt., Tamarack & Osceola Stamp Mills.

Ishpeming

McCLURE, O. D. (1907), Master Mech., Cleveland-Cliffs Iron Co.

Jackson

FROST, Edward J. (1908), Pres. and Genl. Mgr., Frost Gear & Mch. Co., 301 Clinton St.

MAYTHAM, Walter John (1905), Ch. Engr., Cowham Engrg. Co., Carter Bldg., and 761 W. Main St.

WOOD, Erwin E. (1900), Life Member; Pres. and Genl. Mgr., Walcott & Wood Mch. Tool Co., and 755 W. Main St.

Lansing

HARRINGTON, Norman T. (1903), Ch. Engr. and Factory Mgr., Olds Gas Power Co., and 700 Townsend St.

KRYZANOWSKY, Constant J. (Associate, 1902), Mgr., Gas Eng. and Producer Dept., Olds Gas Power Co., and *for mail*, 520 Capital Ave.

RICE, George W. (Junior, 1906), Engrg. Dept., Olds Gas Power Co., and *for mail*, 513 Sparrow Ave.

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Lansing (Continued)

SEAGER, James B. (1908), Genl Mgr., Olds Gas Power Co.

THOMAS, Horace T. (1909), Designing Engr., Reo Motor Car Co., and 1100 Michigan Ave. E.

ZIMMERMAN, W. H. (Junior, 1902), Genl. Mgr., Michigan Power Co., and *for mail*, 414 Grand Ave., S.

Muskegon

ALBERT, Otto (1903), Ch. Draftsman, Shaw Elec. Crane Co., and *for mail*, 51 Sanford St.

BATES, Albert Henry (Junior, 1907), Draftsman, Shaw Elec. Crane Co., and *for mail*, 42 Jiroch St.

SAWYER, Harry (1896), Engr., Shaw Elec. Crane Co., and *for mail*, 6 Ransom St.

YOUNG, John T. (1900; 1908), Genl. Mgr., Muskegon Traction and Ltg. Co., and 95 Jefferson St.

YOUNG, William A. (1901; 1905; 1906), Asst. Ch. Draftsman, Shaw Elec. Crane Co., and *for mail*, 137 Terrace St.

Painesdale

RANKIN, William A. (1907), Elec. Engr., Copper Range Consol. Co., Ch. Engr., Copper Range Elec. Co.

Port Huron

WEBER, O. L. E. (1895; 1905), Mgr., Mich. Sulphite Fibre Co.

Saginaw

ADAMS, Thomas D. (Junior, 1906), Werner & Pfleiderer, and *for mail*, 732 S. Jefferson Ave.

ALGER, Harley C. (Junior, 1908), Supt., Willcox Engrg. Co., and *for mail*, 300 Simonean St.

FISHER, Elbert C. (Junior, 1891), V. P. and Genl. Mgr., Wickes Boiler Co., and 529 N. Jefferson Ave.

WILLCOX, George B. (1895; 1908), Pres. and Genl. Mgr., Willcox Engrg. Co., 502 Eddy Bldg., and *for mail*, 1413 Genesee Ave.

Sibley

CHURCH, Austin (Junior, 1895), Secy., Sibley Quarry Co., V. P. and Secy., Sibley Brick Co.

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Vulcan

ARMSTRONG, Frank Hall (1908), Mech. Engr., Penn Iron Mining Co., Republic Iron Co.

MINNESOTA

Duluth

FULLER, Floid M. (Junior, 1907), Production Engr., Marshall Wells Hardware Co., and Y. M. C. A.

HUGO, T. W. (1882), Cons. Engr., 221 W. 6th Ave.

McGIFFERT, John Rutherford (1907), Secy. and Treas., Clyde Iron Wks., 29th Ave., W., and Mich. St., and 15 E. 3d St.

RUMSEY, Spencer S. (1900; 1907), Engr. of Constr., Oliver Iron Mining Co., 610 Wolvin Bldg., and 217 S. 19th Ave. E.

RYERSON, William N. (1906), Genl. Mgr. Great Northern Power Co.

WESSINGER, Henry J. (1897), Ch. Engr., Oliver Iron Mining Co., 610 Wolvin Bldg.

Minneapolis

BROWN, Edwin Hacker (Junior, 1903), Cadwell & Brown Co., 1045-51 Security Bank Bldg., and 2303 Pleasant Ave.

CRAIG, Robert (Associate, 1907), Sales Engr., 412 S. 3rd St., and *for mail*, P. O. Box 149, Robbinsdale.

FLATHER, John J. (1889), Prof. Mech. Engrg., Univ. of Minn., and *for mail*, 315 11th Ave., S. E.

GARBETT, Joseph (1899), Mech. Engr., Minneapolis Steel & Mchy. Co., and *for mail*, 416 Oak St., S. E.

HVID, Rasmus M. (Junior, 1907), Engr. Mech. Dept., Minneapolis Steel & Mchy. Co., and 3140 Holmes Ave.

KAVANAUGH, Wm. H. (Junior, 1902), Prof. Exper. Engrg., Univ. of Minn., and 118 State St., S. E.

MACDONALD, Duncan H. (1903), Genl. Supt., Mech. Dept., Minneapolis Steel & Mchy. Co.

STAUDE, Edwin G. (Junior, 1908), Pres. and Managing Dir., E. G. Staude Mfg. Co., 526 S. 5th St.

St. Paul

DOTY, Paul (1891; 1904), V. P. and Genl. Mgr., St. Paul Gas Light Co., and 286 Laurel Ave.

GARDNER, L. H. (Junior, 1906), Ch. Engr., Herzog Iron Wks., 1044 E. 7th St., and 536 Ashland Ave.

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St. Paul (Continued)

JOHNSON, Ed. E. (1891), Mfr. Wells Screens, Fillmore Ave. and Starkey St., and *for mail*, White Bear Lake.

SYMONS, Wilson E. (1899), Supt. M. P. and Mchy., Chicago Great Western Ry., Met. Opera House Block, and Hotel Ryan.

MISSISSIPPI

Agricultural College

ARD, Charles Edgar (1908), Prof. Physics and Elec. Engrg., Miss. Agricultural and Mech. College.

MISSOURI

Columbia

FESSENDEN, Edwin A. (Junior, 1908), Asst. Prof. Mech. Engrg., Univ. of Missouri, and *for mail*, 26 Allen Pl.

HIBBARD, H. Wade (1891; 1894), Prof. Mech. Engrg., Univ. of Mo.

PHILBRICK, Herbert Shaw (Junior, 1907), Asst. Prof. Mech. Engrg., Univ. of Mo., and *for mail*, 509 Rollins St.

SMITH, Edward S. (Junior, 1909), Instr. Drawing, Univ. of Mo., and Rolla.

Crystal City

CURTIS, Edma H., Jr. (Junior, 1901), Supt. of Constr., Pittsburg Plate Glass Co.

Kansas City

BENDIT, Louis (Associate, 1905), K. C. Sales Mgr., 504 N. Y. Life Bldg., and *for mail*, 134 W. Sea Ave., Independence.

BRADY, Joseph H. (1907), Ch. Engr., Bd. of Education, 1526 Campbell St., and 2115 Benton Blvd.

CUSHMAN, Frank, Jr. (Junior, 1907), Instr. in Mch. Tool Work and Dir. of Dept. Manual Training, H. S., and *for mail*, 3012 E. 27th St.

HARRINGTON, John L. (1903), Waddell & Harrington, Cons. Engrs., 608 New Nelson Bldg., and 2458 Forest Ave.

HEM, H. O. (1909), V. P. and Supt., H. N. Strait Mfg. Co., and 721 W. 18th St.

HURLBURT, Alfred (Associate, 1902), Asst. Engr., McGowan, Small & Morgan, 910 Grand Ave., and 716 Gleed Terrace.

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Kansas City (Continued)

KENT, James M. (1900), Elec. and Mech. Engr., Instr. in Applied Steam and Elec., Manual Training H. S., and 2456 Harrison St.

KNISKERN, W. H. (Junior, 1905), Secy., Freeborn Eng. & Cons. Co., 605-615 Scarritt Bldg., and 3308 Euclid Ave.

McCARTY, Richard J. (1901), V. P., K. C. So. Ry. Co., Thayer Bldg., and *for mail*, 3820 Warwick Blvd.

PRINCE, John Walter (Associate, 1905), V. P. and Treas., Freeborn Engrg. & Constr. Co., 609 Scarritt Bldg.

SHERMAN, C. K. (Associate, 1902), Western Rep.. Under Feed Stoker Co. of Am., 1015-1016 Long Bldg.

St. Louis

ARMSTRONG, Wm. M. (Junior, 1894), V. P., F. A. Goodrich Iron & Steel Co., Chemical Bldg.

ASHTON, Walter S. (1908), Ch. Engr., St. Louis Brewing Assn., and *for mail*, 1727 Cora Ave.

BALL, Philip De Catesby (1899), Mfr., 3003 N. Broadway.

BIXBY, William H. (1888), Life Member; 428 Custom House.

BOUGHTON, Judson H. (Junior, 1903), Secy. & Treas., Nat. Light & Improvement Co., Pierce Bldg., and 3857 Washington Blvd.

BRYAN, William H. (1891), Cons. Mech. and Elec. Engr., Rooms 315 and 316, Lincoln Trust Bldg., and 5718 Vernon Ave.

EINSTEIN, Alfred Charles (Associate, 1905), Pres. and Genl. Mgr., St. Louis County Gas & Elec. Companies, 405 Howard Bldg., 709 Pine St., and 5042 Washington Ave.

FERGUSSON, Henry A. (1902), Cons. Engr. and Dist. Sales Agt., Steel Roof Truss Co., 514 Bank of Commerce Bldg.

FLAD, Edward (1891), Cons. Engr., 1009-11 Fullerton Bldg., and Buckingham Hotel.

GAZZAM, Joseph P. (1902), Life Member; 5027 Westminster Pl.

HARRISON, Edwin S. (Junior, 1905), care of Adolphus Busch, Purchaser, Am. Diesel Eng. Co., S. Side Bank Bldg.

HIGDON, John C. (Associate, 1901), Mech. Engr.. Atty.-at-Law and Pat. Solicitor, 605 Missouri Trust Bldg., and *for mail*, 5561 Von Verson Ave.

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St. Louis (Continued)

HIGGINS, Albert Willis (Associate, 1906), Treas. and Ch. Engr., E. H. Abadie Co., Suite 1100-8, Times Bldg.

HOLMAN, M. L. (1890), V. P., 1894-1896, 1903-1905; Pres., 1907-1908; Cons. Engr., Holman & Laird, Chemical Bldg., and *for mail*, 3744 Finney Ave.

HUGO, Victor (Junior, 1900), Mgr., Hartford Steam Boiler Insp. & Ins. Co., 614 Security Bldg.

JEWETT, Frank N. (1908), Sales Mgr., Wagner Elec. Mfg. Co., and *for mail*, 6 Parkland Pl.

JONES, Chas. E. (1894), Mech. Engr., Instr. in Forging, Manual Training Sch. of Washington Univ., 5361 Von Verson Ave.

KINEALY, John Henry (1896), Mech. Engr., 503 Granite Bldg.

KUPFERLE, Edward (1899), Pres., Kupferle Bros. Mfg. Co., 600 N. 2d St., and 3732 Blair Ave.

LAIRD, John A. (1889; 1891), Cons. Engr., Holman & Laird, 1324 Chemical Bldg., and 4965 McPherson Ave.

MOORE, Stanley H. (1900; Associate, 1903), Director Mech. Arts, McKinley H. S., Missouri and Russell Aves.

MORRISON, Herbert H. (1898; 1904), Cons. Engr., Syndicate Trust Bldg.

NORDMEYER, Louis C. (Junior, 1899), Secy. and Treas., Tait, Nordmeyer Engrg. Co., 1421 Wright Bldg., and 4256 Shenandoah St.

OHLE, Ernest L. (1906; 1908), Washington Univ.

O'NEIL, John Francis (1908), Pres., Fulton Iron Wks., and 4236 W. Pine Blvd.

POSSELT, Ejnar (Junior, 1907), Mech. Engr. and Asst. Mgr., St. Louis Portland Cement Wks., and *for mail*, Hotel Berlin.

POTTER, Wm. Bleecker (1895), Mgr. and Ch. Engr., St. Louis Sampling and Testing Wks., 1225-1227 Spruce St., and 4021 Washington Blvd.

ROSING, Wm. H. V. (1896), Mech. Engr., Mo. Pac. Ry. Co., and *for mail*, 4137 Lindell Blvd.

ST. CLAIR, James Thorpe (Junior, 1901), 5821 Clemens Ave.

TAIT, Roderick H. (1904), Pres., Tait Nordmeyer Engrg. Co., Wright Bldg., and 1368 Granville Pl.

TERRELL, Cary D. (Junior, 1901), Asst. Mgr. of Sales, Southwestern Dist., Pressed Steel Car Co., and Western Car and Fdy. Co., 504 Bank of Commerce Bldg.

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St. Louis (Continued)

VAN HORNE, J. R. (Junior, 1902), Prof. Mech. Engrg., Christian Brothers College.

VOSE, Fred Hale (Junior, 1906), Asst. Prof. Mech. Engrg., Washington Univ., and *for mail*, 1382a Minerva Ave.

WILBUR, Ralston T. (Associate, 1907), Prof. Engrg., Christian Brothers College; Resident Director, Mexico Portland Cement Co., and *for mail*, Box 622.

WOLFF, Herbert Wm. (Junior, 1904), Ch. Mech. Engr., Am. Car and Fdy. Co., 1512 Syndicate Trust Bldg., and 5470 Delmar Blvd.

Springfield

LILLIE, Grant W. (Junior, 1901), Mech. Engr., St. Louis & San Francisco R. R., and *for mail*, 1120 Summit St.

Webster Groves

MATLACK, Ellwood V. (1904), 415 Bompart Rd.

MONTANA

Anaconda

CRABTREE, Frederick Herbert (1905), Asst. Supt., Power Plants, Anaconda Copper Mining Co.

GARRED, Ulysses A. (Associate, 1904), Mech. Supt., Anaconda Copper Mining Co., Box 504.

HILL, Alfred J. (Associate, 1902), Supt. of Fdy. Dept., Anaconda Copper Mining Co., and Foundry Hill.

WRAITH, William (1903), Supt., Washoe Smelter, P. O. Box 93, and 619 Main St.

Butte

NAUGHTEN, James (Junior, 1901), Mech. Engr., 304 E. Broadway.

NORDBERG, Carl Victor (1908), Rep., Nordberg Mfg. Co., and *for mail*, 52 E. Granite St.

Great Falls

KLEPINGER, John Henry (1907), Asst. Supt., Boston & Montana Con. Copper & Silver Min. Co.

Hysham

BUCKINGHAM, Henry H. (Junior, 1904).

NEBRASKA

Grand Island

TADDIKEN, J. F., Jr. (Junior, 1907), Am. Beet Sugar Co.

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Lincoln

CHASE, Leon Wilson (Associate, 1907), Prof. Farm Mechanics, Univ. of Nebr., and 1245 N. 33d St.

CHOWINS, Chas. E. (Associate, 1906), Supt. of Bldgs., Grounds and Constr., Univ. of Nebraska, and 1802 Washington St.

RICHARDS, Chas. Russ (1892; 1901), Dean of Engrg. and Prof. Mech. Engrg., Univ. of Nebraska, and 1803 A St.

Omaha

HARRIMAN, Norman Follett (1904), Chemist and Engr. of Tests, Union Pacific Laboratory, and 106 S. 36th St.

McKEEN, Wm. R., Jr. (1908), Pres. and Genl. Mgr., McKeen Motor Car Co., and 303 S. 33rd St.

NEVADA

Las Vegas

WILCOX, Wallace J. (1891; 1893), Supt. M. P., Las Vegas and Tonopah R. R. and 817 W. 28th St., Los Angeles, Cal.

McGill

WADDELL, George F. (Associate, 1898), Supt., Steptoe Valley Smelting & Mining Co.

Tonopah

HANSON, Augustus (1886), Nevada California Power Co.

NEW HAMPSHIRE

Alton

CLOUGH, Wm. R. (1899), Propr., R. Clough Co.

Claremont

BATEMAN, George Wm. (Junior, 1909), Asst. to Secy. and Wks. Mgr., Sullivan Mchy Co., and *for mail*, 108 Pleasant St.

FRY, Thomas W. (1904), Secy. and Wks. Mgr., Sullivan Mchy. Co.

HOLDSWORTH, Fred Dean (1904), Mech. Engr., Sullivan Mchy. Co.

Concord

LAUDER, George B. (Junior, 1897), Supt., Concord Elec. Co., and 12 Court St.

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Dover

DEAN, Edmund Willard (1905), Mech. Engr., Kidder Press Co., and *for mail*, 137 Silver St.

Durham

LATON, Thomas J. (Junior, 1908), Instr. Drawing and Mech. Engrg., N. H. College, and *for mail*, Box 155.

Exeter

BURLINGAME, Wm. B. (1906), Supt., Exeter Mch. Wks., and *for mail*, 18 Linden St.

Hecksett

BOURNE, Stephen N. (1891), Agt. Dundee Mills, and *for mail*, Elm and Blodgett Sts., Manchester.

Little Boar's Head

JAQUES, Wm. H. (1893), Civ. and Mech. Engr., Pres., Hampton Water Wks Co.

Manchester

MANNING, Chas. Henry (1884), Manager, 1893-1895; V. P., 1895-1897; Life Member; Ch. Engr., U. S. N. (Ret'd), Genl. Supt., Amoskeag Mfg. Co., and 1838 N. Elm St.

THOMPSON, Albert W. (1900; 1907), Supt., Machine Shop, Amoskeag Mfg. Co., and Franklin and Merrimack Sts.

WHITE, Arthur M. (1903), Supt., Am. Loco. Co., and 228 Ash St.

NEW JERSEY

Ampere

JONES, Daniel Lanning (Junior, 1905), Asst. to Production Mgr., Crocker-Wheeler Co.

MAYO, John B. (1892; 1894), Crocker-Wheeler Co., and *for mail*, 456 Fourth Ave., Newark.

WEISSBLATT, Murray E. (Junior, 1907), Crocker-Wheeler Co., and *for mail*, 312 Manhattan Ave., New York, N. Y.

WHEELER, Schuyler Skaats (1899), Pres., Crocker-Wheeler Co., res., Bernardsville.

Bayonne

CONRAD, Ernest B. (1903), Supt., Elec. Launch Co., and *for mail*, 127 Humphreys Ave.

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Bayonne (Continued)

DELANY, Chas. H. (1907), Engr., Babcock & Wilcox, and *for mail*, 411 Chilton St., Elizabeth.

GRAY, John Lathrop (1901; 1905), Asst. Supt., Tide Water Oil Co., Paraffine and Lubricating Works, E. 22d St., and 1260 Waverly Pl., Elizabeth.

GULOWSEN, G. A. (1897), Draftsman, Babcock & Wilcox Co., and *for mail*, Huguenot Park, S. I., N. Y.

INSLEE, Heber Clyde (1907), Engr. on Plant Work, Babcock & Wilcox Co., and *for mail*, 50 Spruce St., Newark.

SNEDDON, Jas. P. (1891), Genl. Supt., Babcock & Wilcox Co., and 532 N. Broad St., Elizabeth.

Bloomfield

ALLAN, Percy (1898; 1903), Treas., Jenkins Mfg. Co., and *for mail*, Montclair.

BAYLIS, Robt. Nelson (1892), Pres. and Engr., The Baylis Co.

CHURCH, Herbert B. (Junior, 1905), Supt., Consol. Safety Pin Co., and 121 Spruce St.

HENDERSON, Robert Halsey (1907), Mgr. of Wks., Westinghouse Lamp Co., and 157 Greenwood Ave., East Orange.

HOUSKEEPER, Wm. G. (Junior, 1906), Research and Engrg. Wks., Westinghouse Lamp Co., and *for mail*, 3508 Baring St., Philadelphia, Pa.

LIBBY, Sam. H. (1897; 1900), Engr., Hoist. Dept., Sprague Electric Co., and *for mail*, 23 Whittlesey Ave., East Orange.

MULLER, Paul (1903), Chief Draftsman, Sprague Elec. Co., and *for mail*, 532 Warren St., Newark.

Bound Brook

BALL, Frank H. (1883), Manager, 1888-1891; V. P., 1894-1896; V. P. and Genl. Mgr., Amer. Engine Co., and *for mail*, 97 Rockview Ave., Plainfield.

BALL, Frederick Ossian (1901; 1907), Asst. Genl. Mgr., Am. Eng. Co., and *for mail*, 44 Washington Ave., Plainfield.

Bridgeton

PARKHURST, Frederic A. (Associate, 1904), Organizing Engr., Ferracute Mch. Co.

SMITH, Oberlin (1881), Pres., 1889-1890; Manager, 1883-1886; Pres., Ferracute Mch. Co., and "Lochwold."

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Burlington

CONARD, Wm. R. (Associate, 1906), Inspection and Tests of Materials, Savings Institute Bldg., and 1102 High St.

Camden

DENNISON, Wilburn Norris (1905), Mech. Engr., Victor Talking Mch. Co., and *for mail*, Merchantville.

GRAVES, Erwin (1890), Supt., Camden Iron Works, and 117 W. Main St., Haddonfield.

GREUL, W. Herman (1907), Vaughn Brothers, Cooper's Point.

GRIMSHAW, Frederick G. (Junior, 1901), M. M., West Jersey & Seashore R. R., and *for mail*, 45 Aberdeen Pl., Woodbury.

HARMAN, William Henry (Associate, 1906), Mech. Engr., Camden Iron Wks.

LUMMIS, Charles W. (Associate, 1907), Mech. Engr., Camden Iron Wks., and *for mail*, 520 N. 2d St.

MACLEOD, Daniel T. (1901; 1907), Asst. Engr., Am. Coke & Gas Constr. Co., 2d and Cherry Sts., *for mail*, and 30 Cedar Ave., Merchantville.

MAGOUN, Henry A. (1890; 1895), V. P., N. Y. Shipbuilding Co.

MATTON, Fred V. (1892), Mech. Engr., Camden Iron Wks.

MAY, De Courcy (1881), Manager, 1900-1903; Pres., N. Y. Shipbuilding Co.

MILLER, F. Joseph (Junior, 1905), Asst. Engr., Warren Webster & Co., and *for mail*, 1312 Bristol St., Philadelphia, Pa.

MOORE, Edwin A. (1908), Pres., Am. Coke & Gas Constr. Co., P. O. Box 351, 2d and Cherry Sts., and 2216 N. 52d St., Wynnefield Ave., Philadelphia, Pa.

MURRAY, Henry H. (1899; 1905), Ch. Draftsman, Victor Talking Mch. Co., and *for mail*, 434 State St.

NOLL, Jacob M. (Junior, 1906), Asst. Ch. Draftsman, Warren Webster & Co., and *for mail*, N. W. Cor. Lees and Merrick Aves., Collingswood.

OSBOURN, Millard P. (Junior, 1901), Mech. Engr., Warren Webster & Co., and 14 Franklin Ave., Merchantville.

WEBSTER, Warren (Associate, 1903), Pres., Warren Webster & Co., Point and Elm Sts., and 41 W. Walnut Ave., Merchantville.

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Carteret

BROWN, John J. (1902), Genl. Mgr., Wheeler Condenser and Engrg. Co.

CHRISTIE, E. W. (1890), Mech. Engr., Wheeler Condenser & Engrg. Co., and Sewaren.

Chrome

DEACON, Ralph Woolman (Associate, 1907), Asst. Supt., U. S. Metals Refining Co., and 225 Murray St., Elizabeth.

Dover

GUCKEL, Charles Henry (Junior, 1901), Treas. and Genl. Mgr., Dover Elec. Light Co., 25 Essex St., and Hoagland Ave.

Dunellen

FABER, John Pelham (Junior, 1908), Mech. Engr. and Ch. Draftsman, Ransome Concrete Mchy. Co.

East Newark

HORSTMANN, Henry J. (1894), Mech. Engr., F. W. Horstmann Co., 408-10 John St., and 240 Ridge St., Newark.

East Orange

BARR, Harry P. (Junior, 1889), 157 N. Walnut St.

BERRY, Edgar H. (1905; 1907), 248 N. 20th St.

SALTZMAN, Auguste L. (1908), M. E., Cons. Engr., 157 Central Ave.

STRING, Joseph Starr (Junior, 1907), Engrg. Dept., Cons. Gas Co., and *for mail*, 130 Arlington Ave.

THULLEN, L. H. (1905), Mech. and Elec. Engr., 96 William St.

Edgewater

KENT, Ellis C. (1889), Engr., Warner Sugar Refinery, and 528 W. 145th St., New York, N. Y.

SCOTT, John William (1907), Supt., Warner Sugar Refining Co., and Van Nostrand Ave., Englewood.

Elizabeth

BRADLEY, Carl D. (1907), Pres., Samuel L. Moore & Sons, Corp., and 353 Union Ave.

BRIGGS, William C. (1907), 133 Elm St.

HOLT, Frank Eugene (1900), Ch. Engr., Singer Mfg. Co., and *for mail*, 93 W. 34th St., Bayonne.

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Elizabeth (Continued)

MILLER, Lebbeus B. (1883), Manager, 1893-1896; 1025 E. Jersey St.

MOORE, Samuel L. (1907), V. P. and Genl. Mgr., Moore Bros. Co., and *for mail*, 117 Stiles St.

ROSE, Harry Mulford (1896), Mech. Engr. and Expert, 23 Elm St.

Ft. Hancock

JULSTEDT, Clas. J. (Junior, 1901), Ch. Draftsman, Sandy Hook Proving Ground, and Long Branch.

Garfield

SCHNEIDER, Paul E. (Junior, 1904), M. E., N. J. Worsted Spinning Co., and 18 Hobart Pl.

Garwood

TUTTLE, Willard S. (1900), Pres., Garwood Bronze & Iron Wks., and 1150 Evergreen Ave., Plainfield.

Harrison

BIRD, John D. (1891; 1905), Asst. Genl. Mgr., H. R. Worthington, and *for mail*, 168 S. Arlington Ave., East Orange.

DUNN, Harry A. (Junior, 1907), Mgr. Centrifugal Dept., Henry R. Worthington, and *for mail*, 53 Morton Pl., East Orange.

LAPAT, Leopold (Junior, 1908), Tester in Centrifugal Dept., Henry Worthington Hydraulic Wks., and *for mail*, 249 Godwin St., Paterson.

LAVAL, Carl Geo. de (1886), Genl. Mgr., Henry R. Worthington Hyd. Wks., and *for mail*, 136 Highland Ave., Orange.

PRINCE, Walter F. (1905), Supt. Fdy. Dept., Henry R. Worthington, and 1365 North Ave., Elizabeth.

SHRIVER, Harry T. (Junior, 1893), Pres., T. Shriver & Co.

SMITH, Ellis Burton (Junior, 1905), Genl. Elec. Co., and *for mail*, 100 N. 9th St., Newark.

STEENSTRUP, Peter S. (1906), Secy., Hyatt Roller Bearing Co., 427 Middlesex St., and *for mail*, 650 Charlevoix Ave., Detroit, Mich.

High Bridge

SHERRERD, John Maxwell (1905), Genl. Sales Agent, Taylor Iron & Steel Co., and *for mail*, 340 Spring St., Easton, Pa.

VAN VALKENBURGH, Ralph D. (1901; Associate, 1905), Engrg. Salesman, Taylor Iron & Steel Co.

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Hoboken

CHARAVAY, Marius A. (Junior, 1908), Instr. Exper. Engrg., Stevens Inst. of Tech., and 225 Palisade Ave., Jersey City.

DENTON, James E. (1881), Manager, 1889-1892; Prof. Engrg. Practice, Stevens Inst. of Tech., and 18 Summit St., East Orange.

FLETCHER, Andrew (1893), Pres. and Treas., W. & A. Fletcher Co.

FLETCHER, W. H. (1899), V. P., W. & A. Fletcher Co., North River I. W., Hudson St., 12th to 14th Sts., and 271 W. 90th St., New York, N. Y.

FURMAN, Franklin De R. (1902), Prof. Mechanism and Mch. Design, Stevens Inst. of Tech., and 700 Hudson St.

GUNTHER, Charles O. (1900; Associate, 1905), Prof. Math., Stevens Inst. of Tech., and member of firm, Gen. Engrg. Co., 90 West St., New York, N. Y.

HUMPHREYS, Alex. C. (1884), Manager, 1907-1910, Life Member; Pres., Stevens Inst. of Tech., Pres., Buffalo Gas Co., and Pres., Humphreys & Glasgow, Incorp., 165 Broadway, New York, N. Y.

MACCORD, Charles W. (1902), Emeritus Prof. Mech. Drawing and Designing, Stevens Inst. of Tech., and 60 Tenth St.

PRYOR, Frederick L. (1900; 1906), Prof. Exp. Engrg., Stevens Inst. of Tech., and 421 Fourth Ave., Newark.

RIESENBERGER, Adam (1890), Registrar and Treas., Stevens Inst. of Tech., and 546 Union Pl., Town of Union.

SHOUDY, Wm. Allen (Junior, 1903), Asst. Prof., Exper. Engrg., Stevens Inst. of Tech.

STEVENS, E. A. (Associate, 1889), Life Member; Pres., Hoboken Land & Impt. Co., Member, E. A. Stevens & Co., 1 Newark St., and Castle Point.

WEBB, John Burkitt (1882), Prof. Math. and Mech., Stevens Inst. of Tech., Cons. Engr., and Glen Ridge.

WHITING, Richard A. (Junior, 1909), Instr. Exper. Engrg., Stevens Inst. of Tech., and *for mail*, 137 W. 117th St., New York, N. Y.

Jersey City

BALDWIN, Frank Ruel (1891), 39 Winfield Ave.

BENTON, Morris F. (Associate, 1903), Mech. Engr., 300 Communipaw Ave., and 107 Crescent Ave., Plainfield.

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Jersey City (Continued)

DAVEY, Warren (Junior, 1899), Mech. Engr., Ch. Engr., Colgate & Co., 55 York St., and 123 Sipp Ave.

DU BOSQUE, F. L. (1892), Asst. Engr., Floating Equip't, Pa. R. R. Co., and South Orange.

DUCOMMUN, Edwd. (1898; 1903), Asst. Ch. Engr., Amer. Sugar Refining Co., and *for mail*, 179 Harrison Ave.

GARDNER, G. Clinton, Jr. (1903), Genl. Foreman M. P., Hudson Div. P. R. R., and *for mail*, 568 Jefferson Ave., Elizabeth.

HAGAR, Arthur Percy (Associate, 1907), Asst. Engr., Safety Car Heating & Ltg. Co., 206 Erie St., and *for mail*, 273 Montclair Ave., Newark.

HAYWARD, H. S. (1880), Supt. Motive Power, Pa. R. R., and Cor. Salem and North Aves., Elizabeth.

JOHNSON, F. Amos (1907), 22 Morris St.

KRAUSE, Arthur E. (1887), Structural and Mech. Engr., 345 Fairmount Ave.

LINSTROM, Nils Oscar (1903), Supt., A. B. See Elec. Elevator Co., Pacific Ave. and Forest St., and *for mail*, 121 High St., West Nutley.

McINTOSH, William (1902), Supt. M. P., Central R. R. of N. J., and 25 Willow Ave., Plainfield.

MUELLER, Victor H. (Junior, 1907), Ch. Draftsman, M. W. Kellogg Co., 117 West Side Ave., and *for mail*, 107 N. 4th St., Newark.

PAYSON, T. Elliott (Associate, 1906), M. E., Cons. Engr., 218 Clerk St.

RINK, George William (1907), Mech. Engr., Central R. R. of N. J., and 104 Claremont Ave.

SNYDER, Leo H. (Junior, 1907), Charge Lubricating Dept., Joseph Dixon Crucible Co., 308 Montgomery St.

TOMPKINS, Samuel D. (Associate, 1898), Pres., Smooth-on Mfg. Co., 572 Communipaw Ave., and 533 Communipaw Ave.

Long Branch

SLOCUM, Chester A. (Junior, 1907), Mech. Engr.

Mahwah, Bergen Co.

SARGENT, Fitz-William (1893), Ch. Engr., Am. Brake Shoe & Fdy. Co., Box 15.

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Maurer

PENNINGTON, James H. (1902), Mech. Engr., Supt. Constr. and Power, Am. Smelting & Refining Co., Perth Amboy Plant, and *for mail*, 9 Water St., Perth Amboy.

VALENTINE, Louis Rossiter (Junior, 1907), Barber Asphalt Paving Co., and *for mail*, 165 Perth Amboy Ave., Woodbridge.

Montclair

BURTON, Frank H. (1900), 275 Grove St.

PORTER, Chas. T. (1880; Honorary, 1890), Manager, 1882-1885; V. P., 1886-1888.

WHITTLESEY, James Thomas (1907), Ch. Engr., Elec. Dept., Pub. Service Corp. of N. J., and *for mail*, 45 Lloyd Road.

Newark

ABERCROMBIE, James Henderson (1901), Mech. Supt., Clark Thread Co., Clark and Ogden Sts., and *for mail*, 97 Heller Parkway.

BINSSE, Henry B. (1882), Pres., Binsse Mch. Co.

BURLEIGH, Wm. F. (1905), Asst. Supt., Murphy Varnish Co., and Metuchen.

CAMPBELL, Geo. Watts (1883), Mech. Engr. and Mill Arch., 171 Broad St., and 185 Broad St.

CASH, Arthur Wise (1899), Mech. Engr. and Mfr., Pressure Regulating and Spec. Valves, 313 Market St.

CORE, W. Wallace (Junior, 1907), with Jas. E. Robinson, Mill Engr., and *for mail*, 28 Sherman Ave.

EBERHARDT, Frank Edward (Junior, 1907), V. P. and Treas., Newark Gear Cutting Mch. Co., 66 Union St.

EBERHARDT, Frederick L. (1889; 1902), Pres. and Genl. Mgr., Gould & Eberhardt, and *for mail*, 17 Hillside Ave.

EBERHARDT, Henry J. (1902; Associate, 1906), Secy., Newark Gear Cutting Mch. Co., 66 Union St.

FARRAND, Dudley (1895; 1905), Genl. Mgr., Elec. Dept., Pub. Service Corp. of N. J., 763 Broad St., and 49 Lincoln Park.

FOSTER, John Melville (1900), Pres. and Genl. Mgr., Foster Engrg. Co., 109 Monroe St., and Hotel Marie Antoinette, New York, N. Y.

GAMON, Ernest E. (Junior, 1904), Mfr., Water Meters, and *for mail*, 420 Summer Ave.

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Newark (Continued)

GOTT, Joseph, Jr. (Junior, 1898), Cons. and Contr. Engr., Gott & Liebhardt, 63-65 N. J. R. R. Ave., and *for mail*, 179 Prospect Ave.

HARRINGTON, Harry Garfield (1900; 1906; 1907), 39 Pacific St.

JACOBI, Albert W. (1885), Life Member; 286 S. 6th St.

KUNZE, Edward Joseph (1907), Cons. Mech. Engr., 52 Parkhurst St.

NATE, Emile Henry (Junior, 1904), Mech. Engr., 154 Seymour Ave.

O'KEEFFE, James G. (Junior, 1907), Cadet Engr., Pub. Service Corp. of N. J., and *for mail*, 175 Broad St.

OWEN, James (1894), Cons. Engr., 196 Market St., and *for mail*, Montclair.

PHELPS, Frederick Augustus (1892), Mech. Engr., and Mill Architect, Union Bldg., 9-15 Clinton St.

PHILLIPS, Franklin (1881), Pres., Hewes & Phillips Iron Wks., and 539 Prospect Ave.

READ, George Franklin, Jr. (Junior, 1907), Asst. Mech. Supt., Clark Thread Co., Clark and Ogden Sts., and *for mail*, 238 Belleville Ave.

RICHARDSON, George Partridge (Junior, 1901), Mech. Engr., Engr. of Constr., Isbell-Porter Co., 46 Bridge St., and Wyoming, Milburn P. O., N. J.

ROBERTS, George J. (1888), First V. P., Pub. Service Corp. of N. J., Prudential Bldg.

SHEPARD, Louis A. (1903), Secy., Atha Steel Casting Co., Foot Chapel St., and *for mail*, 23 Glenwood Ave., East Orange.

TREMAINE, E. G. (1889), Automatic Weighing Mch. Co., 136 Commerce St., and Hackensack.

WEICHERT, Arnold E. (1907), Draftsman, The Celluloid Co., and *for mail*, 224 N. 5th St.

WESTON, Edward (1882), Pres., Weston Elec. Instrument Co.

WILSON, James Edward (1887), M. M., Nat. Lock Washer Co., and 205 W. 122d St., New York, N. Y.

WOODS, Samuel Hamilton (Junior, 1907), Salesman, Piano Player Co., 209 Newark Arcade, 647 Broad St., and 32a Clay St.

New Brunswick

HECK, Robert C. H. (1906), Prof. Mech. Engrg., Rutgers College, and *for mail*, 192 College Ave.

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New Lisbon

WHITE, Joseph J. (1880).

Ocean City

HESS, Howard D. (1903), 1501 Asbury Ave.

Orange

DURAND, Nelson Crawford (1889), Mgr. of Sales, Edison Business Phonograph Co., and Washburn Pl., Caldwell.

DYER, Frank Lewis (Associate, 1901), Pres., Natl. Phonograph Co., and Montclair.

Passaic

APPLETON, Henry W. (Junior, 1906), Mech. Supt., Passaic Print Wks., and 335 Lafayette Ave.

BENNETT, Thomas Archibald (Junior, 1903), Engr., Robins Conveying Belt Co., and *for mail*, 160 Van Houten Ave.

BRYANT, F. J. (1902), M. M., Andrew McLean Co., 4th and Sussex Sts., and *for mail*, 31 Lincoln St.

LYALL, Wm. L. (1887; 1893), Treas., Brighton Mills, and 349 Aycrigg Ave.

SCHLACHTER, Carl H. (1906), Superintending Engr., Botany Worsted Mills, and *for mail*, 266 Harrison St.

SCOTT, J. Alvah (1900), Naval Arch. and Marine Engr., 91 Westervelt Pl.

SEDGWICK, E. H. (Junior, 1899), Planing Dept., Brighton Mills, and *for mail*, 122 Franklin Ave.

UEHLING, Edward A. (1883), Life Member; Pres., Uehling Instrument Co., Delaware Ave., and *for mail*, 199 Franklin Ave.

Paterson

ALEXANDER, Edward E. (Associate, 1908), Shop Engr., Cooke & Rogers Wks., Amer. Loco. Co., and *for mail*, 882 E. 29th St.

BROCK, William M. (1894), Supt. Elec. Dept., Pub. Service, Edison Sta., and 576 E. 25th St.

CHRISTIE, Wm. Wallace (1889), Cons. Engr., Citizens' Trust Co. Bldg., and *for mail*, 527 14th Ave.

COOKE, Fred W. (1903), Mgr. Am. Loco. Co., and 384 Broadway.

FERGUSON, J. W. (1891), Engr. and Bldg. Contr., 152 Market St., and 12th and 28th St., also 253 Broadway, New York, N. Y.

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Paterson (Continued)

HUGHES, Robert G. (1908), Secy. and Mech. Engr., John W. Ferguson Co., and *for mail*, 152 Market St.

MILSON, Thomas H. (1903), 528 E. 29th St.

ROYLE, Vernon (1907), Pres. and Treas., John Royle & Sons, and *for mail*, 618 E. 28th St.

ROYLE, Vernon Elmer (Junior, 1905), Mech. Engr., John Royle & Sons, and *for mail*, 823 E. 22d St.

WILDER, Sylvanus Wells (Junior, 1907), Supt., Dolphin Jute Mills, and *for mail*, 529 14th Ave.

Perth Amboy

ANTISELL, Frank Linden (1905), Asst. Supt., Raritan Copper Wks.

Phillipsburg

LARNED, Stephen H. (Associate, 1903), Genl. Mgr., Standard Silk Co., and *for mail*, 75 S. Main St.

PRELLWITZ, William (1900), Ch. Engr., Ingersoll-Rand Co., and *for mail*, 66 N. 3d St., Easton, Pa.

RAYMOND, Ward (1901), Asst. Engr., Ingersoll-Rand Co., and *for mail*, 932 Paxinosa Ave., Easton, Pa.

Plainfield

GREENLEAF, Geo. Edward (1892), Mech. Engr., Niles-Bement-Pond Co.

HIBBARD, Henry D. (1883), Life Member; Cons. Engr., 144 E. 7th St.

HOLLINGSWORTH, Samuel (1899; 1907), Mech. Engr., 171 E. Front St., and Stout Ave., Scotch Plains.

MacMURRAY, James T. (1904), Gen. Mgr., Niles-Bement-Pond Co.

STEBBINS, Albert C. (1904), V. P., Niles-Bement-Pond Co., and 835 W. 7th St.

Princeton

WILLSON, Frederick Newton (1883), Prof. Descriptive Geom. and Tech. Drawing, Princeton Univ., and *for mail*, Box 63.

Rahway

McARTHUR, Alonzo William (1904), Pres., N. J. Steel Co.

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Roselle

HIGGINS, Campbell Peck (1893), 127 Fifth Ave., E.
MOORE, Miller F. (1891), 145 E. 4th Ave.

Rutherford

ANDERSON, Jas. C. (Junior, 1893), Cons. and Contr. Engr., 153 Newell Ave.

South Orange

YEREANCE, William B. (1894), Cons. Engr., 418 Centre St.

Stewartsville

HERTER, Emil (1894), Mech. Engr., Edison Crusher Co., and *for mail*, 129 Park Ave., Orange.

MASON, William H. (Junior, 1901), Supt., Edison Portland Cement Co.

Trenton

BUNN, Frank Wilson (1894), care John A. Roebling's Sons Co.

CHASTENEY, Charles D. (Junior, 1904), M. E., Sales Mgr., DeLaval Steam Turbine Co., and 903 Carteret Ave.

GUY, Albert Emile (1905), Ch. Engr., DeLaval Steam Turbine Co., and E. Hamilton Ave.

HARMAR, Josiah (1900; 1904), J. A. Roebling's Sons Co., and *for mail*, 234 W. State St.

HEWITT, Wm. (1880), Manager, 1884-1887; Trenton Iron Co., and 471 Hamilton Ave.

HUTTINGER, Wm. R. (Junior, 1906), Supt. Mch. Shop, Trenton Malleable Iron Co., and *for mail*, 310 Pine St., Beverly.

MAXFIELD, Howard H. (1904), M. M., Penn. R. R. Shops, and 925 Edgewood Ave.

WEBBER, Sam'l S. (1880), Manager, 1902-1905; Ch. Engr., Trenton Iron Co., and *for mail*, 153 Greenwood Ave.

Vineland

JACKSON, Charles J. (1905), Mgr., Jackson Vise & Tool Co., and *for mail*, 625 Pear St.

Watchung

MOLDENKE, Richard (1900), Secy., Amer. Foundrymen's Assoc.

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Weehawken

SULLIVAN, Howard W. (Junior, 1908), Union Drydock & Repair Co., and care A. O'Neill, 611 Bedford Ave., Brooklyn, N. Y.

West Orange

EDISON, Thos. A. (1880; Honorary, 1904), Inventor.

Woodbridge

EDGAR, Ellis F. (1903), Box 135.

NEW MEXICO

Albuquerque

HUNING, Arno E. (Junior, 1902), Secy. & Treas., Nash Elec. Supply Co., Pres., Southwestern Elec. & Con. Co., Secy., Albuquerque Floral Co.

San Pedro

CASE, Albert H. (Junior, 1903), Supt., Santa Fe Gold & Copper Mining Co.

NEW YORK

Albany

BLAKE, Francis E. (Junior, 1901), Mech. Engr., State Barge Canal Office, New Lyon Block, and Delmar, Albany Co.

BLESSING, James H. (1891), Pres., Albany Steam Trap Co., and *for mail*, 107 Eagle St.

KELLEY, Frederick Williams (1905), V. P., Helderberg Cement Co., 78 State St.

McELROY, James Finney (1900), Cons. Engr., Cons. Car Htg. Co., 423 N. Pearl St., and *for mail*, 131 Lake Ave.

MACK, George J. (Junior, 1909), Mech. Engr., Pub. Service Com., 2d Dist.

ROBINSON, Garland P. (1902-1909), Pub. Service Com., 2d Dist.

SAGUE, James Edward (1887), Pub. Service Com., and New Hamburg.

WHEELER, Seth (1894), Pres., A. P. W. Paper Co., and Castleton.

WHEELER, Seth, Jr. (Junior, 1905), V. P., and Genl. Supt., A. P. W. Paper Co., and 11 S. Hawk St.

Astoria

CARPENTER, Harold Eugene (1908), Supt. of Constr., Astoria Light, Heat and Power Co., and *for mail*, The Courtland, 1219 Madison Ave., New York.

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Auburn

COOKE, Harte (1897), Asst. Engr., McIntosh, Seymour & Co., and 216 W. Genesee St.

DYER, Robert A., Jr. (1908), Asst. Genl. Mgr., Rochester, Syracuse & Eastern R. R. Co., and *for mail*, 2 Sheridan St.

McINTOSH, John E. (1901), McIntosh, Seymour & Co., and 204½ Genesee St.

MOORE, Fredk. Clouston (1905), Supt., Osborne Wks., Internat. Harvester Co., and *for mail*, 12 Elizabeth St.

SEYMOUR, James Alward (1892), McIntosh, Seymour & Co., and *for mail*, 64 South St.

Baldwinsville

LAGER, Carl Axel (Junior, 1893), Supt., Morris Machine Wks.

Bellport, Long Island

VOSE, Clarence (1891), and Brooklyn.

Binghamton

BATES, Alex B. (1889), Rear Admiral, U. S. Navy (Ret.), Cons. and Supervising Mech. Engr., 18 Riverside Drive.

CHURCHILL, Chas. O. (1906), Supt., Georgian Mfg. Co., and 95 Leroy St.

COBB, Geo. H. (1891), Supt., N. Y. Transit Co., Room 802 Kilmer Bldg., and 28 Frederick St.

CONLEE, George D. (Junior, 1906), Supt., Binghamton Gas Wks., 40 Chenango St., and *for mail*, 185 Washington St.

HARRIS, Job Frederic Wilson (1898), Cons. Engr., 21 Goethe St.

Brooklyn

ABBOTT, Frederick Bancroft (1904), 490 7th St.

AIKEN, Charles W. (1903), Secy. and Treas., Houchin-Aiken Co., Engrs. and Machinists, 35 53d St., and *for mail*, 800 E. 12th St.

BAYLIS, Arthur Raymond (1905; 1906), 2416 Clarendon Road, Flatbush.

BENNETT. Geo. L. (1905), 290 Linden Ave., Flatbush.

BOORAEM, J. Van Vorst (1884), Life Member; Cons. Engr., 204 Lincoln Pl.

BURR, John T. (1884), 429-431 Kent Ave., and *for mail*, Mansion House.

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Brooklyn (Continued)

BURR, Jonathan Sturges (Junior, 1894), J. T. Burr & Son, and *for mail*, 429-431 Kent Ave.

CORBETT, Chas. H. (1884), Manager, 1901-1904; V. P., Continental Iron Wks., and *for mail*, "Hotel Chatelaine," 1111 Dean St.

COVELL, Harry N. (1891), Supt., Lidgerwood Mfg. Co., Dikeman St., and *for mail*, 7 E. 19th St., Flatbush.

CREMER, James M. (1885), 410a Classon Ave.

DAVIDSON, Marshall T. (1886), Pres., M. T. Davidson Co., 43-53 Keap St., and 108 St. James Pl.

DAVIS, Edwin Halsted (Junior, 1907), Ch. Draftsman, Davidson's Steam Pump Works, and *for mail*, Y. M. C. A., Bedford Ave. and Monroe St.

DAVIS, George H. (Junior, 1907), Bureau of Yards and Docks, Brooklyn Navy Yard, and *for mail*, 949 E. 34th St.

DAVIS, Robt. G. (1900; 1902), Cons. and Constr. Engr., 454 48th St.

DEMING, Wm. H. (1897), Mech. Engr., Continental Iron Wks., and 541 Eastern Parkway.

DIXON, Charles F. (Junior, 1903), Constr. Engr., 5705 14th Ave.

DOBSON, W. J. M. (1881), Cons. Mech. Engr., 398 Adelphi St.

DOUGHTY, George A. (Associate, 1903), Supt., Logan Iron Wks., and *for mail*, 710 Putnam Ave.

DREWETT, Wm. A. (1888), Supt., M. T. Davidson Co., 43-53 Keap St., and *for mail*, 524 Lafayette Ave.

ENGEL, Louis G. (1887), 169 Columbia Heights.

ENNIS, Wm. Duane (1898; 1907), Prof. Mech. Engrg., Poly. Inst.

FLADD, Frederick C. (1887), Traveling and Consulting Engr., E. W. Bliss Co., 17 Adams St., and *for mail*, 167 Quincy St., and New Canaan, Conn.

FLINN, Thomas F. (1892), Mech. Engr., 72 Second Pl.

GABRIEL, Charles R. (1901), Cons. and Designing Engr., E. W. Bliss Co., and *for mail*, 1810 Glenwood Road, Ave. G.

GREENE, David Joy (Junior, 1896), Treas., 300 Oakland St., and Milford, Conn.

GROSSMAN, Albert (1903), Cons. Engr., 112 Marlborough Road.

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Brooklyn (Continued)

HAGERTY, Walter W. (Junior, 1905), 720-A Quincy St.

HAMILTON, James V. (1893), 54 Beard St.

HILLMANN, Gustav (1883), Life Member; Naval Arch., 470 Greene Ave.

HOWARD, Chas. Alton (Junior, 1907), E. W. Bliss Co., Adams and Plymouth Sts., and *for mail*, 519 W. 124th St., New York.

HUFF, Slaughter W. (1891; 1897), Pres., C. I. & Brooklyn R. R. Co., Franklin and De Kalb Aves.

JEWELL, Chas. W. (1893), Engrg. Dept., Water Supply, Gas and Electricity, and *for mail*, Woodhaven.

JONES, Jarrard E. (Junior, 1903), Machinist, U. S. Navy, and *for mail*, 336 Jefferson Ave.

KAUP, Wm. Joseph (1900; 1906), Head Instr. Mch. Constr., Pratt Inst., and 181 Steuben St.

KELMAN, John H. (1904), Genl. Eastern Rep., Kelman Elec. and Mfg. Co., of Los Angeles, Cal., and *for mail*, 194 Lefferts Place.

KENT, Robert Sayre (1901), Engr.-in-Charge, Arbuckle Bros. Sugar Refinery, and *for mail*, 253 80th St.

KNAPP, Edwin C. (Junior, 1893), Asst. Engr., care E. W. Bliss Co., 17 Adams St., and 137 Hopkinson Ave.

KNIGHT, Geo. Laurence (1905; 1908), Designing Engr., Edison Elec. Ill. Co., of Brooklyn, 360 Pearl St., and 1032-A Sterling Pl.

LANGLOTZ, Charles (1894), Mech. Supt., Brooklyn Cooperage Co., 142 Kent Ave., and *for mail*, 888 Lincoln Pl.

LANGLOTZ, Robert (1894; Associate, 1904), 78 Delevan St., and *for mail*, 786 President St.

LARKIN, Fred A. (1888), 570 Ocean Ave., Flatbush.

LEAVITT, Frank M. (1887), Cons. Engr., 133 Plymouth St.

LEE, Ralph A. (Junior, 1909), Mech. Draftsman, 414 78th St.

LENFEST, Bertram A. (1904), Mech. Engr., 1524 76th St.

LOCKWOOD, Rutherford T. (Junior, 1904), Engr., Sone & Fleming Wks., Kingsland and Meserole Aves.

LOGAN, Frank J. (1894), V. P. and Treas., Logan Iron Wks., Commercial St., and 285 DeKalb Ave.

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Brooklyn (Continued)

LOGAN, Wm. J. (1880), Life Member; Logan Iron Wks., Commercial and Clay Sts.

McFARLAN, Edward (Junior, 1908), 360 Jefferson Ave.

MACINTIRE, Horace James (Junior, 1907), Natl. Lead Co., 135 Marshall St.

MAXWELL, Max Carson (1908), Head Dept. Applied Mechanics, Sch. of Science and Tech., Pratt Inst., and 56 Lefferts Pl.

MEISSNER, Charles F. (Junior, 1901), 262 20th St.

MESICK, D. W. (1892), Prop. and Mgr. Fulton Fdy. & Mch. Co., 25 Furman St., and *for mail*, 98 Hicks St.

MILLETT, Kenneth B. (Junior, 1908), Factory Supt., Protal Co., 325 Johnson St., and *for mail*, 250 W. 88th St., New York.

MOHUN, John L. (1904), Elec. Traction Dept., P. T. & T. R. R. Co., 242 W. 31st St., New York, and 562 7th St.

MONTAGUE, Chas. Dwight (1905), 66 Waldorf Ct.

NASH, Lewis H. (1891), Mech. Engr., Natl. Meter Co., 42d St. and 1st Ave., and *for mail*, 248 Gates Ave.

NORDEN, Carl L. (Junior, 1908), Draftsman, Lidgerwood Mfg. Co., and *for mail*, 395 E. 3d St.

NORRIS, J. H. (1891; 1905), 4207 First Ave.

OULD, John Geo. (Associate, 1908), Supt. and Ch. Engr., Polhemus Memorial Clinic.

PATTON, John H. (Junior, 1898), Engr. and M. M., N. Y. Tanning Extract Co., West and Green Sts., and *for mail*, 633 Leonard St.

ROWLAND, Charles Bradley (1885; 1894), V. P., Continental Iron Wks. (Greenpoint), and 329 Madison Ave., New York.

ROWLAND, Thos. F., Jr. (1884), Pres., Continental Iron Wks., West and Cayler Sts., and *for mail*, 133 Hooper St.

SAR VANT, Wilbur Nason (Junior, 1907), 16 Verona Pl.

SCOTT, Seaton M. (1896; 1897), 55 Hawthorne St.

SHERMAN, W. D. (1907), H. E., Inventor and Supt., 85 to 93 Ninth St., and *for mail*, 521 E. 8th St.

SLAWSON, Harry H. (Junior, 1904), 345 Eastern Parkway.

THOMAS, Edward G. (1890; 1907), Supt., Ariston Marble Co., 203 37th St., and *for mail*, 157 Congress St.

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Brooklyn (Continued)

TIBBALS, Geo. A. (1897), Secy. and Treas., Continental Iron Wks., and *for mail*, 148 Milton St.

ULBRICHT, Tomlinson C. (Junior, 1908), Instr. Engrg. Dept., Pratt Inst., and *for mail*, 234 Willoughby Ave.

VIOLA, Bartholomew (1901), Managing and Ch. Engr., Chem. Wks. of Chas. Pfizer & Co., 11 Bartlett St., and 388 Monroe St.

WARDWELL, Arthur Soper (Junior, 1906), Wire Ch., N. Y. & N. J. Telephone Co., and 613 Throop Ave., and *for mail*, 495 Washington Ave.

WILLISTON, Arthur L. (1896; 1899), Director, Dept. Science and Tech., Pratt Inst., and *for mail*, 275 Clinton Ave.

WOOD, Frank J. (1899), Ch. Engr., Marx & Rawolle's Glycerine Factory, 9 Van Brunt St., and *for mail*, 361 Henry St.

Buffalo

ARNOLD, Edwin Ebert (1900; 1906), Farrar & Trefts, 60 Perry St.

BALLIN, Alfred E. (Associate, 1906), Asst. Ch. Engr., Snow Steam Pump Wks., and *for mail*, 188 W. Utica St.

BARKER, Fred P. (Associate, 1907), Inspr. U. S. Engr. Office, 540 Federal Bldg., and *for mail*, 511 West Ave.

BIERBAUM, Christopher H. (1894; 1898), Life Member; Cons. Engr., V. P., Lumen Bearing Co., Pres., Robson Smelting Co., Pres., Molyneux Mailing Machines Co., 1142 Prudential Bldg., and 80 Fargo Ave.

BIGELOW, Myron J. (1904), Mech. Engr., Molyneux Mailing Mchs. Co., 253 Ellicott St., and *for mail*, 357 Delaware Ave.

BREWSTER, Frank H. (1894), Genl. Supt., U. S. Rubber Reclaiming Wks., 724 Babcock St., and 180 Woodbridge Ave.

CARRIER, Willis H. (Associate, 1905), Ch. Engr., Buffalo Forge Co., and *for mail*, 464 Woodward Ave.

CLOUDSLEY, David B. (Associate, 1908), Asst. to Ch. Engr., Bureau of Water, and *for mail*, 43 Massachusetts Ave.

CLOUDSLEY, James B. (1892), Ch. Engr., Pumping Sta., Bureau of Water, and *for mail*, 43 Massachusetts Ave.

COLEMAN, Edgar Park (1905), Steam Engr., Lackawanna Steel Co., and 271 Franklin St.

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Buffalo (Continued)

COOKE, George William (1907), Supt., Pierce Arrow Motor Car Co., 1695 Elmwood Ave., and *for mail*, 88 Preston St.

COOKE, Thomas Fowke (Junior, 1904), M. E., 857 Delaware Ave., and 154 E. 37th St., New York.

DANFORTH, N. L. (Junior, 1903), Treas., John W. Danforth Co., Piping Contrs., 70-72 Ellicott St.

DAUGHERTY, Samuel Bovard (1905), Ch. Draftsman, Gas Eng. Dept., Snow Steam Pump Wks., and *for mail*, 93 Lafayette Ave.

DOLLAR, William M. (1896; 1903), Cons. Mech. Engr., 90 Erie Co. Bank Bldg., and 421 Baynes St.

GANNETT, Herbert I. (Junior, 1900), V. P. and Genl. Mgr., Monarch Acetylene Co., 66-70 Exchange St., and 129 Windsor Ave.

GATH, Andrew L. (Associate, 1906), Branch Mgr., Manning, Maxwell & Moore, (Inc.), 401 White Bldg., and *for mail*, 1092 Elmwood Ave.

GREGORY, Joseph N. (1903), Mgr. for West. N. Y., Dearborn Drug & Chemical Wks., 302 Morgan Bldg., and 149 Riley St.

HALL, Rodney D. (1902; 1908), Asst. to Ch. Engr., Snow Steam Pump Co., and *for mail*, 61 Anderson Pl.

HAMMOND, Richard (1890), Pres., Lake Erie Engrg. Wks., and Lake Erie Boiler Wks., and *for mail*, 413 Porter Ave.

HYMAN, D. (1892), Empire Limestone Co., Virginia and 4th Sts., and Niagara Hotel.

JACKSON, Lucian C. (1901), Cons. Gas. Eng. Expert, 905 D. S. Morgan Bldg., and *for mail*, 234 14th St.

KING, W. Grant (1894; 1904), V. P., and Genl. Mgr., King Sewing Mch. Co., 254 Court St.

LAIDLAW, Walter (1889), Manager, 1905-1908; V. P. and Genl. Mgr., Snow Steam Pump Wks., and *for mail*, 1403 Laidlaw Ave., Sta. P, Cincinnati, O.

LANDON, A. A. (1902), Genl. Supt. Plants, Am. Radiator Co., 1741 Elmwood Ave., and Niagara Hotel.

LUTHER, Stephen Grinnell (1907), Asst. Ch. Draftsman, Gas Eng. Dept., Snow Steam Pump Wks., and *for mail*, 469 Prospect Ave.

MILES, Henry Dixon (1907), Pres., Buffalo Fdy. and Mch. Co., and 139 Bryant St.

MORSE, Chas. M. (1884), Ch. Engr., Buffalo Engrg. Co., 9 Erie Co. Bank Bldg., and 246 Bryant St.

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Buffalo (Continued)

OSGOOD, John L. (1898), Mfr. and Dealer in Mchy. and Tools, 121 and 138 Erie Co. Bank Bldg., and 540 Massachusetts Ave.

POWEL, Samuel W. (1880), Asst. Mech. Engr., Equip. Dept., Am. Radiator Co., Box 115, and *for mail*, 679 Auburn Ave.

ROPER, D'Arcy Wentworth (Junior, 1901), Secy., Asst. Treas., Great Lakes Constr. Co., Chamber of Commerce Bldg., and Market St., Petersburg, Va.

SCOTT, Clarence N. (1902), Ch. Engr., Snow Steam Pump Wks., and *for mail*, 663 Lafayette Ave.

SHANTZ, Oliver S. (1900), Asst. Mgr., J. Y. Shantz & Son Co., 442 Niagara St., and 475 Norwood Ave.

SORNBORGER, Edwin C. (1890), Traveling Engr., Snow Steam Pump Wks., and *for mail*, 208 Lancaster Ave.

STEVENS, Harold L. (Associate, 1904), Dist. Sales Agt., Lackawanna Steel Co., 206 Fidelity Bldg., and 499 Ashland Ave.

STREETER, Robert Leroy (Associate, 1907), Instr., Tech. H. S., and *for mail*, 879 Niagara St.

WILKE, William (1893), Mech. and Chem. Engr., 86 Norwood Ave.

Canastota

CASLER, Herman (Junior, 1901), Mfr.

College Point

BRECKENRIDGE, C. E. (Associate, 1904), care Amer. Hard Rubber Co., New York.

MARTENS, Ferdinand (1885).

Dansville

WOOLLEY, Harold O. (Junior, 1909), Draftsman, Power Specialty Co.

Denauville

HALLADAY, Harry F. (Junior, 1903).

Dunkirk

HEQUEMBOURG, Charles G. (1904), Contractor and Engr., 733 Central Ave.

Elmira

FLINN, Thos. C. (1906), Genl. Supt., Kennedy Valve Mfg. Co., and *for mail*, 412 E. Church St.

KENNEDY, M. E. (Junior, 1906), Secy. and Asst. Supt., Kennedy Valve Mfg. Co., East Water St.

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Fishkill-on-Hudson

CHALLEN, Paull Jewill (Associate, 1897), Cons. Engr., Supt. Tioronda Hat Wks.

GILLET, Louis Allston (Junior, 1901).

MOREHOUSE, Wm. S. (1896; 1899), 28 Beacon St.

Flushing

DOUGHTY, Wm. F. (Junior, 1899), Mech Engr., 17 Beach St.

HAUGHTON, Frank A. (1903), 243 Jamaica Ave.

LOGAN, John D. (1892), Life Member; Cons. Engr., 100 N. Parsons Ave.

SABIN, Alvah Horton (1896), Chemist, 432 Sanford Ave.

WILMERDING, Chas. Henry (1904), 20 Sanford Ave.

Geneva

BOWEN, Ernest S. (1892), V. P. and Genl. Supt., Fay & Bowen Engine Co., and 72 North St.

Glens Falls

HOOPES, Maurice (1901), Pres., Finch, Pruyn & Co.

KASSON, R. S. (Junior, 1903), Pres., Kasson Constr. Co.

Groton

BROWN, J. Grove (1902), Mech. Engr., Monarch Road Roller Co.

Hastings-on-Hudson

BEACH, Harold Kenney (Junior, 1904), Natl. Conduit & Cable Co.

HEMSTREET, Geo. P. (1906), Supt., Hastings Pavement Co.

High Falls, Ulster Co.

CANNIFF, William Lester (1907), M. M., T. A. Gillespie Co.

Hillburn

SNOW, Wm. W. (1889), V. P., Ramapo Iron Wks.

Hoosick Falls

CLUETT, Sanford L. (Junior, 1903), V. P. and Secy., Walter A. Wood M. & R. M. Co.

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Hudson

MacLAUCHLAN, James H. (1907), Engr., Am. Cement Engrg. Co.

Ilion

CALDER, John (1903), Mgr., Remington Typewriter Wks., and *for mail*, 8 Prospect Ave.

POMEROY, Harry D. (1892; 1904), Mech. Engr., Remington Arms Co., and *for mail*, 201 Steuben St., Herkimer.

TYLER, Chas. C. (1897), Wks. Mgr., Remington Arms Co., P. O. Box 507.

Ithaca

BARNARD, Wm. N. (1900; 1905) Prof. Steam Engrg., Sibley College, Cornell Univ., and *for mail*, 7 South Ave.

BERNA, Geo. (1906), Pres., Hygeia Ice Co.

CARPENTER, Rolla C. (1883), V. P., 1908-1910; Prof. Expl. Engrg., Sibley College, Cornell Univ., and 125 Eddy St.

DIEDERICHS, Herman (Junior, 1904), Prof. Expl. Engrg., Cornell Univ., and *for mail*, 610 Stewart Ave. Ext.

HIRSHFELD, Clarence Floyd (Junior, 1905), Asst. Prof. Power Engrg., Sibley College, Cornell Univ., and *for mail*, 712 E. Seneca St.

KESSLER, Armin Geo. (Junior, 1909), Instr., Sibley College, Cornell Univ., and *for mail*, 805 E. State St.

KIMBALL, Dexter Simpson (1900), Prof. Mch. Design and Constr., Sibley College, Cornell Univ., and 23 East Ave.

MORSE, Everett Fleet (1901), Morse Thermo Gage Co., and 111 Eddy St.

RITES, Francis M. (1891), Mech. Engr., 516 University Ave.

SMITH, Albert W. (1880; 1892), Director, Sibley College, Cornell Univ.

Jamaica

HART, Frederick L. (1891), 53 Clinton Ave.

Laurel Hill, Queens Co.

BOENIG, Robert W. (1892; 1909), Engr.-in-Charge, Nichols Copper Co., and *for mail*, 157 Mecker Ave., Brooklyn.

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Linoleumville, Staten Island

MELVIN, David N. (1880), Life Member; Supt. and Engr., Amer. Linoleum Mfg. Co.

Lockport

BISHOP, Charles R. (1903), Secy. and Genl. Mgr., Am. Dist. Steam Co., and 413 Locust St.

WHITE, James A. (Junior, 1900), 237 High St.

Long Island City

CLARK, Farley Granger (1907), Supt. of Power, P. T. & T. R. R. Co., 4th and Front Sts., and 601 W. 144th St., New York.

MANTON, Arthur Woodroffe (1908), Deputy Managing Engr., S. Pearson & Son, Inc., Contrs. East River Tunnels (P. R. R.), and Murray Hill, Flushing.

Maspeth

MERRILL, Geo. H. (Junior, 1898), Secy., Merrill Bros., and 469 Greene Ave., Brooklyn.

Matteawan

BLACKBURN, Arthur Henry (1894), Treas. and Genl. Mgr., Green Fuel Economizer Co.

Middletown

FLORY, Burton P. (1906), Supt. M. P., Ontario & Western Ry. Co.

Mohegan

HORNE, Harold F. (Junior, 1909), Asst. to Erecting Foreman, M. W. Kellogg Co.

Morristown

CRUIKSHANK, Barton (1889; 1890), Cons. Engr.

Mt. Vernon

COOK, John P. (Junior, 1906), Draftsman, 111 N. Terrace Ave.

DE VED, Horace W. (Junior, 1908), Asst. to Engr., Westchester Lighting Co., and 127 Franklin Ave., New Rochelle.

GOULD, Webster V. (1887), N. Y. Representative, Jones & Lamson Mch. Co., of Springfield, Vt., and *for mail*, 51 S. 10th Ave.

LELAND, Frederic H. (1907), Production Engr., 178 Archer Ave.

MONKS, Wm. Douglas (Junior, 1908), 353 S. 3d Ave.

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Newark

DEAN, Arthur Malcolm (Junior, 1907), Mora Motor Car Co., and *for mail*, 1 Sherman Parkway.

Newburgh

PENNEY, Edgar (1880), V. P. and Genl. Mgr., Newburgh Ice Mch. & Eng. Co.

New York City

ABELL, Harry Clinton, (1900; 1902), Mech. Engr., care Emerson, McMillin & Co., 40 Wall St.

ABRAMS, Herbert T. (1901), Mgr., Pump Dept., Ingersoll-Rand Co., 11 Broadway, and *for mail*, 160 Cleveland St., Orange, N. J.

ADLER, Alphonse A. (Junior, 1907), Mech. Draftsman, Pa. Tunnel & Terminal R. R. Co., 8-10 Bridge St., and *for mail*, 85 Ashland Pl., Brooklyn.

AHRNKE, H. P. (Junior, 1902), Pa. Tunnel & Terminal R. R. Co., Office of Ch. Engr. of Elec. Traction, 8-10 Bridge St.

ALBERGER, Louis R. (1889), Pres., Alberger Condenser Co., 95 Liberty St.

ALDCORN, Thomas (Associate, 1903), Genl. Eastern Sales Agt., Chicago Pneumatic Tool Co., 50 Church St., and 35 King Ave., Weehawken P. O., N. J.

ALDRICH, Herbert Lincoln (Associate, 1900), Pres. and Treas., Internatl. Marine Engineering, also The Boiler Maker, 17 Battery Pl., and Hotel San Remo, Central Park West and 74th St.

ALEXANDER, Harry (1895; 1899; 1901), Elec. and Mech. Cont. Engr., Astor Court Bldg., 18-20 W. 34th St., and Great Neck.

ALEXANDER, Ludwell Brooke (Junior, 1905), Asst. Engr., United Engrg. and Constr. Co., 32 E. 33d St., and *for mail*, 2262 Sedgwick Ave.

ALFORD, Leon Pratt (1900; 1908), Engrg. Editor American Machinist, 505 Pearl St., and 67 W. 106th St.

ALLAN, Wm. T. (Associate, 1906), Andrew Allan & Sons, 486 Greenwich St., and 728 Ocean Ave., Jersey City, N. J.

ALLEN, Carlton B. (Junior, 1905), Ch. Engr., Marine Dept., N. Y., N. H. & H. R. R. Co., Harlem River Sta., and *for mail*, 30 Colonial Pl., New Rochelle.

ALMIRALL, Juan A. (1892; 1904), Heating and Vent. Engr., 281 Water St., and 97 McDonough St., Brooklyn.

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New York City (Continued)

ALSBERG, Julius (Junior, 1905), Asst. to John Bogart, Cons. Engr., 141 Broadway, and *for mail*, 56 W. 95th St.

ANDERSON, Robt. Marshall (1898), Cons. Engr., 90 West St.

APPS, Chas. Henry (1899), Am. Loco. Co., 30 Church St.

ARTAUD, Theodore P. (Associate, 1907), Asst. to V. P. and Pur. Agt., Hudson & Manhattan R. R., 30 Church St., and 262 W. 83d St.

ASHLEY, Frank M. (Junior, 1894), Patent Atty. & Cons. Engr., Tribune Bldg., 154 Nassau St., and 310 Ditmas Ave., Brooklyn.

ATKINS, Harold B. (1903), Cons. Engr. and Accountant, 154 Nassau St., and *for mail*, 527 W. 121st St.

ATWATER, Chris. G. (1891; 1901), Mech. Engr., Room 1314, Whitehall Bldg., 17 Battery Pl., and 285 Lincoln St., Flushing, L. I.

ATWOOD, Geo. D. (Junior, 1903), Mgr. New York Office, Wheeler Condenser & Engrg. Co., West Street Bldg., 90 West St., Pres., Atwood-Rearick Co., 30 Church St.

AUSTIN, Adolph Odell (Junior, 1905), Ch. Draftsman, Starr Engrg. Co., Fulton Bldg., Hudson Terminal, 50 Church St., and *for mail*, 46 Treno St., Halcyon Park, New Rochelle.

AUSTIN, William S. (1902; 1906), Mech. Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St., and 649 Prospect Pl., Brooklyn.

AUTENRIETH, George C. (Junior, 1908), Instr. Descriptive Geometry and Drawing, College of the City of New York, and *for mail*, 1628 St. Peters Ave., Westchester.

AYLSWORTH, Joseph W. (Junior, 1907), Asst. Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St., and 35 E. 31st St.

BACON, Earle C. (1885; 1886), Cons. and Contr. Engr., Havemeyer Bldg., 26 Cortlandt St.

BACON, Frederick T. H. (1908), Supt. M. P., Hudson & Manhattan R. R. Co., 30 Church St., and 126 Claremont Ave.

BACON, George W. (1898; 1899), Mech. Engr., Member firm, Ford, Bacon & Davis, 115 Broadway, and 23 W. 67th St.

BAKER, Charles Whiting (1893), Editor, Engrg. News, St. Paul Bldg., 220 Broadway, and 20 S. Mountain Ave., Montclair, N. J.

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New York City (Continued)

BAKER, George Otis (1906), Mech. Engr., New England Engrg. Co., 30 Church St., and *for mail*, 570 W. 183d St.

BAKER, William E. (1902), W. E. Baker & Co., 27 William St.

BALDWIN, J. Edward (Junior, 1902), Secy., Fulton Eng. Co., 290 Broadway, and *for mail*, Graham Ave., Hempstead, Long Island.

BALDWIN, Wm. J. (1882), Cons. Engr., Room 501, 61 Park Row, and 151 Halsey St., Brooklyn.

BARBOUR, Geo. H. (Associate, 1902), Mech. & Elec. Engr., 42 Broadway, and *for mail*, Northfield Ave., West Orange, N. J.

BARLOW, Elbert S. (Junior, 1903), V. P. and Treas., Hedden Constr. Co., 1 Madison Ave., and 200 Riverside Drive.

BARNABY, Charles W. (1884), Cons. Engr., 309 Broadway.

BARRATT, Edgar Grant (1888), Pres., Union Bag & Paper Co., 17 Battery Pl., and *for mail*, 133 Harrison St., East Orange, N. J.

BASFORD, Geo. M. (1889; 1891), Manager, 1905-1909; Asst. to Pres., Amer. Loco. Co., 30 Church St., and *for mail*, 134 Primrose Ave., Mt. Vernon.

BASINGER, James Garnett (1907), 523 W. 121st St.

BATCHELOR, Charles (1880), 33 W. 25th St.

BAVIER, Charles Samuel (Associate, 1907), Ch. Engr., Metropolitan Life Ins. Co. Bldg., 1 Madison Ave.

BEEKMAN, John V. (1889), Genl. Supt., Lidgerwood Mfg. Co., 96 Liberty St., and 216 W. 8th St., Plainfield, N. J.

BEHN, Carl (1903), Mgr., Buffalo Refrig. Mch. Co., 126 Liberty St., and 24 Nassau Pl., East Orange, N. J.

BELL, John Everett (Associate, 1903), Mech. Engr., care Babcock & Wilcox Co., 85 Liberty St., and 479 W. 152d St.

BENNET, Orville G., Jr. (Junior, 1907), care of W. M. Bennet, Bank of Am., 46 Wall St.

BENNS, Charles P. (1898), Supt. Buildings and Grounds, Teachers' College, Columbia Univ., and 528 W. 123d St.

BENTON, George H. (1908), Mgr. Valve Dept., The Fairbanks Co., and *for mail*, Metuchen, N. J.

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New York City (Continued)

BERLINER, Richard W. (Junior, 1903), V. J. Hedden & Sons Co., Builders, Metropolitan Tower, and 174 W. 79th St.

BERRYMAN, Wilson G. (Junior, 1905), 541 W. 123d St.

BIBBINS, James Rowland (Junior, 1904), Pub. Service Com., First Dist., 154 Nassau St.

BILLINGS, William Richardson (1906), Secy. and Treas., Alberger Condenser Co., and Alberger Pump Co., 95 Liberty St., and 36 Monroe Place, Brooklyn.

BLACKWELL, Josiah Low (1898), 27 William St., and Continental Bldg., Baltimore, Md.

BLISS, Collins P. (1903), Prof. Mech. Engrg., N. Y. Univ., and Bliss & Griffiths, 225 Fifth Avenue, and *for mail*, 2206 Andrews Ave., Univ. Heights.

BLOEMEKE, Rudolph B. (1909), Ch. Draftsman, N. Y. Edison Co., 55 Duane St.

BLOSSOM, Francis (1902), Partner, Sanderson & Porter, 52 William St., and 65 Heywood Ave., Orange, N. J.

BLUMGARDT, Isaac E. (Associate, 1908), 501 W. 143d St.

BOEHM, Wm. H. (1900), Supt. Depts. of Steam Boiler and Fly Wheel Ins., Fidelity & Casualty Co., 97 Cedar St., and 80 St. Nicholas Ave.

BOLLER, Alfred P., Jr. (1901), 1 Nassau St., and East Orange, N. J.

BOLTON, Reginald P. (1898), Consulting Expt., 527 Fifth Ave., and 638 W. 158th St.

BOORAEM, J. Francis (1895; 1906), Secy., Treas. and Mgr., Am. Enam. Brick & Tile Co., 1 Madison Ave., and South River, N. J., also 251 Shore Road, Greenwich, Conn.

BOUTON, Geo. Innes (1901; 1904), Engr., Eastern Dist., Heine Safety Boiler Co., 11 Broadway, and 137 W. 82d St.

BOWMAN, Austin Lord (1899), Cons. Engr., 165 Broadway.

BOYD, James C. (1907), Cons. Mech. Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St.

BOYD, John J. (Associate, 1906), Pres., Hudson Engrg. Co., 90 West St., and South Orange, N. J.

BOYER, Edwin S. (1897; 1902; 1907), Mech. Engr., office of Walter Kidde, Engr. Constr., 140 Cedar St., and *for mail*, 93 Fairview Ave., Plainfield, N. J.

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New York City (Continued)

BRADLEY, W. H. (1892), Chief Engr., Cons. Gas. Co., 4 Irving Pl., and 23 West 68th St.

BRAINE, Bancroft G. (1896; 1905), Engr., Rail Joint Co., 29 W. 34th St., and 67 First Pl., Brooklyn.

BRENDLINGER, Wm. B. (Associate, 1907), N. Y. Mgr., Ingersoll-Rand Co., 11 Broadway, and 450 3d St., Brooklyn.

BRESLOVE, Joseph (Junior, 1906), Turbine Engr., Westinghouse Mch. Co., 165 Broadway, and *for mail*, 7 W. 101st St.

BRIGGS, James M. (1903), 154 Nassau St., and 101 Ascension St., Passaic, N. J.

BRIGGS, Thos. Hallett (Associate, 1900), Engr. and Salesman, M. H. Treadwell Co., 140 Cedar St.

BRIGHAM, Lucien M. (Junior, 1906), Sales Mgr., 85 Liberty St., and 138 Montague St., Brooklyn.

BRINSMADE, Louis L. (1897; 1906), Eastern Sales Mgr., Westinghouse Mch. Co., 165 Broadway, and The Friesland, 103d St. and Broadway.

BRISSELL, F. M. (Junior, 1902), Ch. Estimator, John Simmons Co., 110 Centre St., and *for mail*, 599 Franklin Ave., Brooklyn.

BROOME, Ernest L. (Junior, 1898), Engr., Viele, Blackwell & Buck, 49 Wall St., and *for mail*, 50 Barker Ave., White Plains.

BROWN, Dickson Q. (Junior, 1902), Secy., Tide Water Oil Co., 11 Broadway.

BROWN, Herman Elisha (1908), Ch. Engr., Amn. Cement Engrg. Co., 315 Fifth Ave., and *for mail*, 15 W. Chestnut St., Kingston, N. Y.

BROWN, Howard Hayes (Junior, 1908), Editor, International Marine Engrg., 17 Battery Pl.

BRUCKNER, Rudolph E. (1909), Ch. Engr., Commercial Acetylene Co., 80 Broadway.

BRUFF, Charles E. (1908), N. Y. Mgr., Power & Mining Mchy Co., 115 Broadway.

BRUYERE, Paul Tulane (Associate, 1907), Supt. Constr. Dept., Standard Plunger Elev. Co., 115 Broadway, and *for mail*, 409 Park St., Upper Montclair, N. J.

BUCK, Irwin (Junior, 1907), Mgr., Alcohol Utilities Co., 156 W. 23d St., and 138 W. 64th St.

BULKLEY, Henry W. (1885), Mech. Engr. and Mfr., 140 Broadway, and *for mail*, 166 Alden St., Orange, also 154 Harrison St., East Orange, N. J.

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New York City (Continued)

BUNNELL, Sterling Haight (1894; 1903), Wks. Mgr., Griscom-Spencer Co., 90 West St., and 527 W. 121st St.

BURNS, A. L. (1888; 1897), V. P., Jabez Burns & Sons, 600 W. 43d St., and 378 Grand Ave., Brooklyn.

BURR, William H. (1907), Cons. Engr., and Prof. Civil Engrg., Columbia Univ., and 151 W. 74th St.

BUSHNELL, Douglas S. (1909), Genl. Supt., Natl. Transit Co., 26 Broadway.

CALDWELL, George B. (1902), Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St., and *for mail*, 54 Van Sice Ave., Yonkers.

CALDWELL, John A. (1907), 220 Broadway, and *for mail*, 55 Walnut St., Montclair, N. J.

CARLTON, Willard G. (1906), Supt. of Power, Elec. Div., N. Y. C. & H. R. R. R., Grand Central Sta.

CARNEGIE, Andrew (1890; Honorary, 1907), 2 E. 91st St.

CARPENTER, Charles U. (1907), Pres., Herring-Hall-Marvin Safe Co., 400 Broadway.

CARSE, David Bradley (1889), Pres., David B. Carse & Co., City Investing Bldg.

CARSE, John B. (1903), Member Advisory Comm., U. S. Steel Corporation, 71 Broadway, and Riverdale-on-Hudson.

CARY, Albert A. (1889), Cons. Mech. Engr., 95 Liberty St.

CHAMBERS, Frank Ross, Jr. (Junior, 1898), V. P., Duplex Metal Co., 208 Fifth Ave.

CHANDLER, Irving A. (Junior, 1899), Cons. Engr., 120 Liberty St., and 107 W. 82d St.

CHILD, Earnest T. (1903), Mech. Engr., G. A. Suter & Co., 112 Wooster St., and *for mail*, 70 Mt. Pleasant Ave., Orange, N. J.

CHISHOLM, John James (Associate, 1904), Ch. Engr., Waterside Station, New York Edison Co., 38th St. and 1st Ave., and *for mail*, 450 E. 141st St.

CHURCH, Charles Thos. (Junior, 1895), Asst. Secy., Church & Dwight Co., 65 Wall St., and Davenport Neck, New Rochelle.

CHURCH, Elihu C. (Junior, 1908), Lecturer, Dept. of C. E., Columbia Univ., and *for mail*, 4 E. 130th St.

CHURCH, E. Dwight, Jr. (1891; Associate, 1895), Secy., Church & Dwight Co., 63 Wall St., and 286 Clinton Ave., Brooklyn.

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New York City (Continued)

CLARK, Walter L. (1888), V. P., Niles-Bement-Pond Co., and Pratt & Whitney Co., 111 Broadway, and Dongan Hills, Staten Island.

CLARKE, Chas. L. (1882), Pat. Expt., Elec. and Mech. Engr., 120 Broadway, and Plainfield, N. J.

CLARKE, Charles Warrington E. (Associate, 1907), Steam Engr., Elec. Dept., N. Y. C. & H. R. R. R. Co., 1231 Grand Central Sta.

CLARKE, Samuel J. (1884), 51 Wall Street, and *for mail*, 309 W. 103d St.

CLOSE, Ralph T. (Junior, 1899), Westinghouse, Church, Kerr & Co., 10 Bridge St., and *for mail*, Hillsdale, N. J.

COBLEIGH, Henry R. (Junior, 1904), Mech. Editor, The Iron Age, 14 Park Pl., and 510 E. 8th St.

COFFIN, Frank M. (1907), Supt. Constr. and Repairs, The Maintenance Co., 54-56 Franklin St., and *for mail*, 272 Manhattan Ave.

COLE, Edward S. (Junior, 1897), Hydraulic Engr., 220 Broadway, and 133 Bellevue Ave., Upper Montclair, N. J.

COLE, George Wm. (Junior, 1907), Secy., Economic Engrg. Co., 50 Church St.

COLLETT, S. D. (1902), V. P. and Eastern Mgr., Elevator Supply & Repair Co., 114-116 Liberty St.

COLVIN, Fred Herbert (1895; 1899), Asso. Editor, American Machinist, 505 Pearl St., and *for mail*, 30 N. Maple Ave., East Orange, N. J.

COLWELL, James Van V. (1903), Life Member; 1765 Sedgwick Ave.

COMSTOCK, Louis K. (1902), Pres., L. K. Comstock & Co., Inc., 50 Church St., and *for mail*, 195 Fernwood Ave., Upper Montclair, N. J.

CONNON, George W. (1907), Engr., Charge of Work, N. Y. Office, Honolulu Iron Wks. Co., 11 Broadway, and 28 Montgomery Pl., Brooklyn.

CONRAD, Hugh Vincent (1887; 1891), The Schuyler, 57 W. 45th St.

CORRY, Wm. (1890), V. P., Chrome Steel Wks., 11 Pine St.

CORYELL, Edwin Miers (1901), Supt., 433 East 23d St., and 410 Richmond Ave., South Orange Hgts., N. J.

COSTER, Edwd. Livingston (Associate, 1896), Life Member; Broad Exchange Bldg., 25 Broad Street, and *for mail*, Irvington-on-Hudson.

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New York City (Continued)

COSTER, Maurice (1904), Mgr. Export Depts., Westinghouse Elec. & Mfg. Co., and Westinghouse Mch. Co., 165 Broadway, and 607 Riverside Drive.

COWPERTHWAIT, Allan (Junior, 1899), A. B. See Elec. Elevator Co., 220 Broadway, and Hydewood Park, Plainfield, N. J.

COX, Frank G. (1905; Associate, 1908), Engr., Otis Elevator Co., 17 Battery Pl.

CRAIG, James (1897), Mech. Engr., 556 W. 34th St., and *for mail*, 120 Echo Ave., New Rochelle.

CRAMP, Edwin S. (1888), V. P., 1896-1898; 127 E. 61st St.

CRAWLEY, George E. (Junior, 1908), Gold & Stock Tel. Co., 68 Broad St., and *for mail*, 557 W. 124th St.

CREELMAN, Frank (1894), 447 W. 23d St.

CULLINGWORTH, Geo. R. (1884), Mech. Engr., Garvin Mch. Co., Spring and Varick Sts.

CUMMINGS, Orrie P. (1899), Supt. of Construction, A. B. See Elec. Elevator Co., 220 Broadway, and 104 W. 58th St.

CUNNINGHAM, Chas. G. (Associate, 1908), Engr., N. Y. C. & H. R. R. R. Co., Port Morris Power Sta., and *for mail*, 7 Perot St., Kingsbridge.

CURTIS, Greely S. (1897; 1904), Cons. Engr., Fire Dept. Expert, 73 Maiden Lane, and Rye.

DALE, Orton G. (1894; 1909), Mgr., Mead-Morrison Mfg. Co., 11 Broadway, and Plainfield, N. J.

DALLY, John Horton (1903), Ch. Engr., N. Y. Stock Exchange, 10 Broad St., and 77 Glenwood Ave., East Orange, N. J.

DARBY, John (1907), Cons. and Designing Engr., 136 Liberty St., and *for mail*, 340 Springfield Ave., Summit, N. J.

DARLING, Philip Grenville (Associate, 1906), Mech. Engr., Manning, Maxwell & Moore, Inc., 85-89 Liberty St.

DARRIN, David H. (1892; 1900), Cons. Engr., 131 Liberty St.

DASHIELL, W. W. (1890), Pres. & Genl. Mgr., N. Y. Lubricating Oil Co., V. P., Bayway Refining Co., 116 Broad St., and 848 St. Nicholas Ave.

DAWLEY, Clarence A. (Junior, 1904), Cons. Engr., 323 W. 77th St.

DAY, Irvin W. (Junior, 1908), Secy., R. A. C. Smith, 100 Broadway, and 417 W. 120th St.

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New York City (Continued)

DEARBORN, Wm. Langdon (Junior, 1892), Secy. and Treas., Eastwick Engrg. Co. (Ltd.), 42 Broadway.

DECKER, Edward P. (1906), Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St.

DE LAMATER, Oakley R. (1902), Secy., Mitchell Motor Co., of N. Y., 1876 Broadway, and Englewood, N. J.

DEWSON, Edwd. Henry (1889; 1898), Resident Engr., Westinghouse Air Brake Co., 165 Broadway, and 209 W. 81st St.

DICKERMAN, Wm. Carter (1899; 1907), V. P., Am. Car and Fdy. Co., 165 Broadway, and 809 Madison Ave.

DICKEY, Wm. D. (1884), V. P. and Genl. Mgr., Shooter Island Ship Yard Co., Room G-1, Produce Exchange Bldg., and 340 W. 56th St.

DICKINSON, William Noble (1906), Mgr. Foreign Dept., Otis Elevator Co., 17 Battery Pl., and 2246 Clarendon Rd., Brooklyn.

DINKEL, Geo. (1890; 1897), Cons. Engr., Amer. Sugar Refining Co., 117 Wall St., and *for mail*, 88 Summit Ave., Jersey City, N. J.

DIXON, Robert M. (1884), Pres., Safety Car Heating & Lighting Co., 2 Rector St., and 21 Walnut St., East Orange, N. J.

DOBSON, Frank (1906), 319-321 E. 53d St.

DODWELL, John G. (Junior, 1907), Ch. Engr., 14th St. Store, and *for mail*, 51 Bank St.

DOELLING, Louis Karl (1906), V. P. and Genl. Supt., De La Vergne Mch. Co., foot E. 138th St., and 26 Colonial Pl., New Rochelle.

DOHERTY, Henry L. (1903), V. P. and Cons. Engr., Am. Light & Traction Co., Senior Partner, Henry L. Doherty Co., Bankers, 60 Wall St.

DONNELLY, Wm. T. (1903), Cons. Engr., 135 Broadway.

DOUD, Arthur T. (Junior, 1907), Cost Engr., J. G. White & Co., 43 Exchange Pl., and *for mail*, 572 W. 187th St.

DUCAS, Charles (Junior, 1903), V. P., Ducas & Co., Room 379, 50 Church St., and 515 W. 139th St.

DUNCAN, J. D. E. (1903), Life Member; Man. Engr., with Sanderson & Porter, 52 William St.

DUNCOMBE, Frederic H. (Junior, 1909), Engr. and Draftsman, Allis-Chalmers Co., 71 Broadway.

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New York City (Continued)

DUNN, Charles (1897), Mech. Engr., R. W. Hunt & Co., 90 West St.

DURANT, Aldrich (Junior, 1906), Supt., Raymond Concrete Pile Co., 140 Cedar St., and 9 Lowell St., Cambridge, Mass.

EARLL, Chas. Isaac (1892), 11 Broadway, and 159 W. 105th St.

EASTMENT, Wm. H. (Junior, 1896), Engr., B. Altman & Co., Fifth Ave. and 34th St., and Glen Cove, L. I.

EDSON, Jarvis B. (1883), 313 W. 74th St.

EILERS, Karl Emrich (1890; 1904), Am. Smelting & Refining Co., 165 Broadway, and *for mail*, Sea Cliff, L. I.

ELDRED, Byron E. (1899; 1903), 208 Fifth Ave., and Lawrence Park, Bronxville.

EMERSON, Harrington (1899), Standard Practice and Efficiency Engr., Rooms 1522-24, Hudson Terminal, 30 Church St.

ENNIS, J. B. (1909), Asst. to Mech. Engr., Am. Loco. Co., 50 Church St., and *for mail*, 615 E. 24th St., Paterson, N. J.

EPPLE, Edward C. (Junior, 1908), Asst. Mgr., Independent Engrg. Co., 50 Church St., and 250 Central Ave., Jersey City Hgts., N. J.

ERRINGTON, Franklin A. (1906), Cons. Mech. Engr., and Mfr. of Mch. Tools, 39 Cortlandt St., and *for mail*, Laboratory, 24 Norwood Ave., also 31 Townsend Ave., Stapleton, Staten Island.

ESTABROOK, Mansfield (Junior, 1903), Niles-Bement-Pond Co., 111 Broadway.

EVANS, Quimby N. (1891), Member of Firm, Evans, Almirall & Co., 281-3 Water St., and *for mail*, 371 Sterling Pl., Brooklyn.

FABER DU FAUR, A. (1880), Life Member; Cons. Engr., and Expt. in Patent Causes, Room 617, Vanderbilt Bldg., 132 Nassau St., and *for mail*, 22 Nichols St., Newark, N. J.

FAILE, E. Hall (Junior, 1907), Mech. Engr., City Investing Co., 165 Broadway, and *for mail*, The Dakota, 1 W. 72d St.

FALKENAU, Arthur (1886), Cons. Engr., 995 Madison Ave.

FELDMAN, Abram Meyer (1900), Cons. Engr., 120 Liberty St., and 241 W. 142d St.

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New York City (Continued)

FENNER, David C. (1906), 1966-1968 Broadway, and 705 Ravine Rd., Plainfield, N. J.

FERGUSON, Geo. R. (1890), Asst. Engr., Dept. of Bridges, 1203 Park Row Bldg.

FERRY, Charles H. (Associate, 1902), Life Member; Room 1360, 50 Church St.

FIEUX, Ernest D. (Junior, 1907), V. P., Genl. Mgr. and Treas., L. J. Wing Mfg. Co., 90 West St., and *for mail*, 200 Claremont Ave.

FILLINGHAM, Myles Percy (1908), Cons. and Contr. Engr., Hudson Terminal Bldg., 50 Church St., and 104 N. Cliff St., Ansonia, Conn.

FLANDERS, Ralph E. (Associate, 1908), Assoc. Editor, Machinery, and *for mail*, 123 W. 82d St.

FLEMING, Henry Stuart (1903), Cons. Engr., 1 Broadway, and Somerset, Pulaski Co., Ky., also 23 E. 77th St., New York, N. Y.

FLETEMEYER, Louis Henry (Junior, 1906), Ch. Draftsman, Cameron Steam Pump Wks., 433 E. 23d St.

FLINT, Bertram Pierpont (1894), McIntosh, Seymour & Co., 50 Church St.

FOGG, Oscar H. (Associate, 1907), Engr. Dept. of Mains and Services, Cons. Gas. Co. of N. Y., 4 Irving Pl.

FORAN, George Jesse (1887; 1893), Mgr. Condenser Dept., Internatl. Steam Pump Co., and *for mail*, 471 Central Park W.

FORSTALL, Alfred E. (1899), Cons. Engr., 58 William St., and Montclair, N. J.

FOSTER, Ernest Howard (1885; 1894), Mech. Engr., V. P., Power Specialty Co., 111 Broadway.

FOSTER, Jed S. (1891; 1903), Asst. Engr., Lidgerwood Mfg. Co., 96 Liberty St., and Westfield, N. J.

FOWLER, Geo. L. (1886), Cons. Mech. Engr., 53 Broadway.

FOX, Royal E., Jr. (Junior, 1901), V. P., The Engineer Co., Room 1180, 50 Church St., and Irving Arms, 222 Riverside Drive.

FOX, William (1900), Assoc. Prof. Physics, College of the City of N. Y., 139th St. and Convent Ave., and *for mail*, 555 E. 86th St.

FRANCISCO, Ferris L. R. (Junior, 1906), Ch. Engr., Am. Tobacco Co., Room 1008, 111 Fifth Ave. and 142 Clinton Ave., Jersey City, N. J.

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New York City (Continued)

FREEMAN, John R. (1887), V. P., 1902-1904; Pres., 1904-1905; Cons. Engr., New York Board of Water Supply, 299 Broadway, and Pres., Mfrs. Mutual Fire Insurance Co., and *for mail*, 815 Banigan Bldg., and res., 235 Arlington Ave., Providence, R. I.

FRENCH, Lester Gray (Junior, 1899), Editor, Am. Soc. M. E., 29 W. 39th St., and 123 W. 82d St.

FREVERT, H. F. (Associate, 1893), Prop., Frevert Mchy. Co., 18 Dey St.

FRITZ, Aime L. G. (Junior, 1907), Mech. Draftsman, Ford, Bacon & Davis, 115 Broadway, and 50 Manoe Ave., Woodhaven, L. I.

FROHWEIN, Richard W. (Junior, 1907), Pur. Agt., M. H. Treadwell Co., 140 Cedar St., and *for mail*, 29 West 34th St., Bayonne, N. J.

FRY, Alfred Brooks (1892), Member Board Cons. Engrs. for Improvement of State Canals, and Chief Engr., U. S. Treas. Service, U. S. Custom House Bldg.

GANTT, Henry L. (1888), Manager, 1908-1911; Cons. Engr., Engineers' Club, 32 W. 40th St.

GARDNER, Henry (Junior, 1904), Asst. Supt. of Apprentices, N. Y. Central Lines, Room 610, Grand Central Sta.

GATELY, Philip J. (Associate, 1904), Chief Engr., R. Webber's, 2191 3d Ave., and *for mail*, 125 E. 54th St.

GAY, Harry (Associate, 1907), Asst. Engr., N. Y. C. & H. R. R. R., 1219 Grand Central Sta., and *for mail*, 612 W. 137th St.

GERHARD, William Paul (1904), Cons. Engr. for Hydraulic and Sanitary Wks., 33 Union Sq., and 39 Strong Pl., Brooklyn.

GERRISH, William H. (1901), Supt., Travers Mfg. Co., 542 W. 52d St., and 71 17th Ave., Paterson, N. J.

GIBBS, Geo. (1890), Ch. Engr. of Elec. Traction, and Terminal Sta. Constr., Pa. Tunnel and Terminal R. R. Co., Ch. Engr., Elec. Traction, West Jersey & Seashore R. R. Co., Long Island R. R. Co., 10 Bridge St.

GIBSON, George Herbert (1900; Associate, 1907), Advertising Engr., Tribune Bldg., and 70 Oakwood Ave., Montclair, N. J.

GILBRETH, Frank B. (1903), Genl. Contractor, 60 Broadway.

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New York City (Continued)

GILDERSLEEVE, David Hamilton (1908), V. P. and Sales Mgr., Waters, Gildersleeve, Colver Co., 45 Broadway, and *for mail*, 146 Bement Ave., West New Brighton.

GILLETT, Wm. Lowry (Junior, 1904), Steam Engr., Genl. Chemical Co., 25 Broad St., and Hotel San Remo.

GILMAN, Francis L. (1908), Am. Tel. and Tel. Co., 15 Dey St., and *for mail*, 49 Christopher St., Montclair, N. J.

GLADDEN, Charles S. (Junior, 1901), Engrg. Dept., J. G. White & Co., 43 Exchange Pl., and Napoli.

GOETZE, Frederick A. (1895; 1900), Dean Sch. of Mines, Engrg. and Chemistry, Columbia Univ., and 411 W. 117th St.

GOLDINGHAM, Arthur Hugh (1907), De La Vergne Mch. Co., Foot E. 138th St., and *for mail*, 457 W. 123d St.

GORDON, Henry Decatur (1896), Mech. Engr., Jenkins Bros., 71 John St., and 15a Evergreen Pl., East Orange, N. J.

GOSS, Harry Terboss (1907), Cons. Mech. Engr., Goss & Bryce, 76 William St., and 78 Chestnut St., Rutherford, N. J.

GOUBERT, Auguste A. (1880), Pres., Goubert Mfg. Co., 90 West St., and Highwood, N. J.

GREENE, Harris Ray (Associate, 1907), Sales Engr., Alberger Condenser Co., 95 Liberty St., and 1406 Chapel St., New Haven, Conn.

GREENE, Isaac Chase (1882; 1886), Life Member; 29 W. 39th St.

GRIEPE, August W. H. (1908), M. E., Engrg. Dept., N. Y. Edison Co., 55 Duane St., and *for mail*, 707 Prospect Ave.

GRIMM, Paul H. (1890), Cons. Engr., 47 Beach St., and Glen Cove, L. I.

GUBELMAN, Fred J. (Associate, 1895), Pres., Eastern Constr. Co., of N. J., V. P., O'Rourke Engrg. Constr. Co., 347 Fifth Ave., and *for mail*, Woodland Ave., Englewood, N. J.

GWILLIAM, Geo. T. (1891), C. E., Resident Mgr., Hess-Bright Mfg. Co., 1974 Broadway, and Union League, Philadelphia, Pa.

HACKETT, George E. (Junior, 1907), Cons. Engr., 90 West St., and Roselle, N. J.

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New York City (Continued)

HACKSTAFF, Frederick William (Junior, 1907), Mgr., Transmission Rope Dept., Amer. Mfg. Co., 65 Wall St.

HADEN, Harry Y. (Associate, 1906), Pres., Turbine Equip. Co., 30 Church St.

HAGUE, Charles A. (1880), Cons. Engr., 52 Broadway, and 147 W. 94th St.

HAINES, H. S. (1893), Manager, 1896-1899; Cons. Engr., Engineers' Club, 32 W. 40th St.

HALL, Frederick Arthur (1892; 1897), Mgr., Hoist Dept., Yale & Towne Mfg. Co., 9 Murray St., and *for mail*, 128 Ascension St., Passaic, N. J.

HALL, Frederick Bellows (1905), Mech. Engr., W. E. Baker & Co., 27 William St., and 40 Morningside Ave.

HALL, Morris A. (1905; Associate, 1906), The Automobile, 231-241 W. 39th St., and *for mail*, 704 W. 180th St.

HALL, Willis E. (1889), Cons. Engr., 30 Pine St.

HALSEY, F. A. (1882), Editor, American Machinist, Hallenbeck Bldg., 505 Pearl St.

HAMILTON, James (1898), Pat. Atty., Mech. and Elec. Expert, 31 Nassau St., and Loan and Trust Bldg., Washington, D. C., and *for mail*, 67 S. Clinton St., East Orange, N. J.

HAMNER, Chas. Sutherland (1901), Hamner & Moody, Engrs., 25 Broad St.

HANNAH, Frederick Augustus (1900; 1904), Commercial and Indus. Organizer, 346 Broadway.

HARDING, Adalbert (Junior, 1898), Wickes Boiler Co., Room 1411, 90 West St., and 69 W. 49th St.

HARDY, George F. (1895), Mill-Arch. and Hyd. Engr., Langdon Bldg., 309 Broadway, and 159 N. Arlington Ave., East Orange, N. J.

HARRIS, Grenville A. (1907), Ch. Engr. Takata & Co., 60 Wall St., and 176 Stiles St., Elizabeth, N. J.

HARRISON, Burt S. (1903), Cons. Engr., 11 E. 24th St., and 252 Lafayette Ave., Brooklyn.

HARTNESS, R. B. (Associate, 1903), care Am. Soc. M. E., 29 W. 39th St.

HARTWELL, Harry (1908), Cons. Engr., Sanderson & Porter, 52 William St., and 975 Park Ave.

JAYWARD, Henry S., Jr. (1900; 1907), Mech. Engr., Franklin Ry. Supply Co., 30 Church St. and *for mail*, 60 North Ave., Elizabeth, N. J.

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New York City (Continued)

HAYWARD, Sterling F. (1903), Treas. and Genl. Mgr., Connelly Ir. Sponge & Gov. Co., 50 Church St., and 64 Locust Hill, Yonkers.

HAYWOOD, D. Howard (1901), Member of Firm, Chapin & Haywood, 76 William St., and 511 W. 149th St.

HEALY, Frederick E. (1906), Mech. Engr. and Spec. Agt., Alberene Stone Co., and *for mail*, 415 Third St., N. W., Washington, D. C.

HEARNE, Robert Joseph (1907), Secy. & Treas., Dubrow & Hearne Mfg. Co., 12 Wooster St., and 46 E. 82d St.

HELMES, M. J. (Junior, 1903), Ch. Engr., and European Rep., European Brake Shoe Co., 90 West St.

HELVEY, Clarence Harman (Junior, 1905), Power Equipment Co., Contracting Engrs., 50 Church St.

HENDERSON, Geo. R. (1890), Cons. Mech. Engr., 20 W. 34th St., and Park Ave. Hotel.

HENDRY, William Ferris (1907), Asst. Supt., Western Elec. Co., 463 West St.

HENNEY, David (1908), Service Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St., and *for mail*, 88 Lorraine Ave., Upper Montclair, N. J.

HENNING, Gustavus C. (1880), Manager, 1896-1899; Life Member, 1890; Cons. Engr., 150 Nassau St., and 521 W. 142d St.

HENSHAW, Frederick V. (1900), Cons. Engr., 90 Wall St., and 79 State St., Brooklyn.

HERBERT, Frederick Davis (1899; 1907), Genl. Sales Mgr., Terry Steam Turbine Co., 90 West St., and *for mail*, 401 Upper Mountain Ave., Upper Montclair, N. J.

HERING, Rudolph (1906), Life Member; Hering & Fuller, Cons. Engrs., 170 Broadway and 40 Lloyd Pl., Montclair, N. J.

HERRESHOFF, J. B. Francis (1894), V. P., Nichols Copper Co., 25 Broad St., and *for mail*, 40 W. 69th St.

HERRICK, James A. (1880), Cons. Engr., Rm. 1603, 2 Rector St., and 136 W. 82d St.

HERSCHMANN, Arthur J. (1900; 1905), Pres., Amer. Wire Brush Co., 277 Greenwich St.

HERSHEY, Martin E. (1889), 114 Liberty St., and 523 W. 143d St.

HILL, E. Rowland (1907), Asst. to Ch. Engr. of Electric Traction, Pa. Tunnel and Terminal R. R., 10 Bridge St., and 76 Watson Ave., E. Orange, N. J.

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New York City (Continued)

HILL, Geo. (1892), Builder, 12 W. 40th St., and New Brunswick, N. J.

HIRSCHLAND, Franz Herbert (Junior, 1906), Mgr., Goldschmidt Detinning Co., 60 Wall St., and 130 W. 98th St.

HIRT, Louis Joseph (1894), Mech. Engr., Broad Exchange Bldg., 25 Broad St., and *for mail*, 34 Morsemere Pl., Yonkers.

HITCHCOCK, Fred'k Matthew (1899; 1907), 80 Washington Sq., E.

HODGINS, George S. (1908), Managing Editor, Railway and Loco. Engrg., 114 Liberty St.

HOE, Robert (1883), R. Hoe & Co., 504 Grand St., and 11 E. 36th St.

HOFMEYER, George August (Associate, 1905), Cons. Engr., 307 6th Ave., and *for mail*, Ho-Ho-Kus, N. J.

HOLBROOK, Dio Lewis (1899), Engr., Otis Elevator Co., 17 Battery Pl., and *for mail*, 46 E. 21st St.

HOLBROOK, Percy (1900), V. P., Rail Joint Co., 29 W. 34th St.

HOLLANDER, Emanuel (1901; 1906), Chief of Estimating Staff, Engrg. Dept., Otis Elev. Co., 17 Battery Pl., and 244 W. 122d St.

HOLLOWAY, H. F. (1891), 220 Broadway, and *for mail*, 223 Upper Mountain Ave., Montclair, N. J.

HOPKINS, George G., Jr. (Junior, 1901), Insp. N. Y. Bd. Fire Underwriters, Room 713, 34 Nassau St., and *for mail*, 320 Clermont Ave., Brooklyn.

HOPTON, Lemuel Robert (Junior, 1899), Supt., The Enos Co., 7th Ave. and 16th St., and Plainfield, N. J.

HORNE, Convers Francis (Junior, 1905), Contr. Engr., Sterling Blower and Pipe Mfg. Co., 109 Liberty St., and 145 Lefferts Pl., Brooklyn.

HORTON, John T. (1895), Mgr., Dobbie Foundry & Mch. Co., 82 Warren St., and *for mail*, 276 Rugby Road, Brooklyn.

HOUGH, David L. (1891; 1892), Pres., United Engrg. and Contr. Co., Managing Dir., Cuban Engrg. and Contr. Co., and *for mail*, 17 W. 42d St.

HOUGHTON, Charles E. (1899), Assoc. Prof. Mech. Engrg., N. Y. Univ. and *for mail*, University Heights.

HOWE, Albert W. (1903), Salesman, Standard Plunger Elev. Co., 115 Broadway, and *for mail*, Hotel St. George, Brooklyn.

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New York City (Continued)

HOWELL, Frank B. (1901), Asst. Genl. Mgr. Sales, Amer. Radiator Co., 104-108 W. 42d St., and Bretton Hall, Broadway and 86th St.

HOWELL, Frank Scott (Associate, 1909), Civ. and Mech. Engr., Ellis Island, and *for mail*, N. Y. Athletic Club, 58 W. 59th St.

HOWELL, John Jacob (Junior, 1906), Engrg. Contr., Howell & Steinacher, 22 E. 21st St., and *for mail*, 210 West 122d St.

HOWELLS, Charles (1904), Supt., Watson-Stillman Co., 50 Church St., and *for mail*, 600 W. 142d St.

HOXIE, Geo. L. (1893; 1904), Cons. Engr., 50 Church St., and 99 Clarewill Ave., Upper Montclair, N. J.

HOXIE, Wm. D. (1899), V. P., Babcock & Wilcox Co., 85 Liberty St., and 298 Washington Ave., Brooklyn.

HUDSON, Wilbur Gregory (1906), V. P., Guarantee Constr. Co., 90 West St.

HULBERT, William Rowsell (Associate, 1906), Sales Mgr., Goldschmidt Thermit Co., 90 West St.

HUMPHREY, George S. (1901), Treas. and Purchasing Agt., C. W. Hunt Co., 45 Broadway, and *for mail*, 320 Bement Ave., West New Brighton, S. I.

HUNT, Charles Wallace (1885), V. P., 1892-1894; Pres., 1897-1898; Life Member; 45 Broadway.

HUNT, Wm. Floyd (Associate, 1894; 1903), Life Member; 45 Broadway.

HUNTER, James Francis (1899; 1909), Asst. Engr. of Constr., Cons. Gas Co., 4 Irving Pl., and 1517 Bolton St., Baltimore, Md.

HUSSEY, Charles W. (Junior, 1908), E. L. Phillips & Co., 50 Church St., and 33 St. Andrews Pl., Yonkers.

HUSSEY, Wm. Edgerly (1904), Mgr., N. Y. Office, Providence Engrg. Wks., 50 Church St., and 67 W. 92d St.

HUTCHINGS, Clifford F. (Junior, 1907), Sprague Elec. Co., 527-531 W. 34th St., and *for mail*, 2441 Seventh Ave.

HUTCHINS, Harry C. (Junior, 1905), Structural Draftsman, Pub. Service Com., 154 Nassau St.

HUTCHINSON, Cary T. (1894), Cons. Engr., 60 Wall St.

HUTTON, Frederick R. (1880), Secy., 1883-1906; Pres., 1907; Honorary Secy. of the Soc.; Life Member; Emeritus Prof. Mech. Engrg., Columbia Univ.; 29 W. 39th St., and *for mail*, 257 W. 86th St.

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New York City (Continued)

HUTTON, Mancius S. (Junior, 1908), Junior Salesman, Am. Radiator Co., Bundy Dept., 104 W. 42d St., and *for mail*, 257 W. 86th St.

IDELL, Frank E. (1889), Life Member; Mech. Engr., 50 Church St.

IDELL, Percy C. (1901; Associate, 1909), Mech. Engr., N. Y. Sales Dept., Babcock & Wilcox Co., 85 Liberty St., and *for mail*, 1026 Hudson St., Hoboken, N. J.

ILSLEY, John Parker (1903; 1907), Niles-Bement-Pond Co., 111 Broadway, and *for mail*, Fourth St., New Brighton, S. I.

INGHAM, Howard M. (1907), Mgr., Bliss-Griffiths Constr. Co., 225 Fifth Ave., and *for mail*, 76 Dwight Pl., Englewood, N. J.

ISHAM, Henry S. (1902; 1907), Draftsman, Met. St. Ry. Co., 621 Broadway, and *for mail*, 951 Park Ave.

ISHERWOOD, Benjamin Franklin (Honorary, 1894), Retired Ch. Engr., Rank of Rear Admiral, U. S. N., 111 E. 36th St.

JACOBUS, D. S. (1889), Manager, 1900-1903; V. P., 1903-1905; Advisory Engr., Babcock & Wilcox Co., 85 Liberty St., and Spec. Lecturer in Experimental Engrg., Stevens Inst., Hoboken, and 70 Summit Ave., Jersey City, N. J.

JACOBUS, Robert F. (Junior, 1907), Asst. to Ch. Engr., Amer. Tobacco Co., 111 Fifth Ave., and *for mail*, Ridgefield, N. J.

JENKINS, Matthew Comstock (1894), Hotel Woodward, Broadway and 55th St.

JENKS, Llewellyn Howard (1891), Mgr., N. Y. Office, Frick Co., 39 Cortlandt St., and Rutherford, N. J.

JOHN, Griffith (1899), Ch. Engr., Otis Elevator Co., 17 Battery Pl., and *for mail*, 11 Delavan Terrace, Yonkers.

JOHNSON, David Clayton (Junior, 1907), Asst. Engr., H. deB. Parsons, 22 William St., and *for mail*, 245 Hewes St., Brooklyn.

JOHNSON, William M. (Junior, 1902), Engr., Nat. Board of Fire Underwriters, 135 William St.

JOHNSTON, John Parry (1907), 32 W. 40th St., and Stony Brook, Suffolk Co.

JONES, Benjamin N. (1904), Asst. Genl. Supt., Mfg. & Constr. Dept., Otis Elevator Co., 17 Battery Pl., and *for mail*, 296 Essex Ave., Orange, N. J.

JONES, Frank Cazenove (1891), Pres., W. A. Underhill Brick Co., 103 Park Ave., and 3 W. 74th St.

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New York City (Continued)

JONES, John Emyln (1907), Jones & McKee, Cons. Engrs., Singer Bldg., and 403 W. 115th St.

JONES, William Anthony (1906), Mech. Engr., Babcock & Wilcox Co., and *for mail*, West New Brighton, S. I.

JONES, Walter J. (1909), Cons. Engr., 30 Church St.

JORDAN, Wm. Allen (Junior, 1903), Industrial Engr., Stephen T. Williams and Staff, 346 Broadway.

JOWETT, J. H. (1907), Genl. Sales Mgr., Ingersoll-Rand Co., 11 Broadway, and 508 W. 113th St.

JURGENSEN, Jess Christian (Associate, 1905), Chief Engr. and Supt., St. Regis Hotel Co., St. Regis Hotel, 5th Ave. and 55th St.

JUST, George A. (1904), Cons. Engr. and Pres., George A. Just Co., 239 Vernon Ave., Borough of Queens, and Empire Hotel, also Scarsdale.

KATTE, Edwin Britton (1895; 1901), Ch. Engr. Elec. Traction, N. Y. C. & H. R. R. R., 1230 Grand Central Sta., and Irvington.

KATZENSTEIN, Martin L. (Junior, 1903), Mgr., Marine Dept., Internat. Steam Pump Co., 115 Broadway, and *for mail*, 72 W. 91st St.

KEITH, Thomas M. (Junior, 1905), Genl. Mgr., Link Chain Belt Co., 52 Dey St., and *for mail*, 241 Clifton Pl., Brooklyn.

KELLER, Joseph F. (1908), Genl. Mgr. of Wks., Keller Mech. Engrg. Co., 570-576 West Broadway.

KELSEY, Walter (Junior, 1900), Cons. Engr., 186 Claremont Ave.

KEMBLE, Parker H. (1908), Natl. Elec. Light Assn., 29 W. 39th St.

KENNEDY, J. J. (1902), Cons. Engr., 52 Broadway, and 533 Second St., Brooklyn.

KENT, Edmund (1887), care Am. Soc. of Mech. Engrs., 29 W. 39th St.

KENT, Henry R. (1901), V. P., Westinghouse, Church, Kerr & Co., 10 Bridge St., and Gordonhurst Ave., Upper Montclair, N. J.

KERR, Walter C. (1886), Pres., Westinghouse, Church, Kerr & Co., 10 Bridge St., and Dongan Hills, S. I.

KETCHUM, Samuel (Associate, 1908), Ch. Draftsman, M. H. Treadwell Co., 140 Cedar St., and 197 Hillside Ave., Glen Ridge, N. J.

KINKEAD, James A. (Associate, 1903), Mgr. of Sales, Parkesburg Iron Co., 2601 Singer Bldg.

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New York City (Continued)

KIRCHHOFF, Charles (1882), Editor, The Iron Age, 14 and 16 Park Pl., and 422 West End Ave.

KIRK, Robert H. (1895; 1903), V. P., The Howland-Kirk Co., Hudson Terminal Bldg., 50 Church St., and 100 Buckingham Road, Brooklyn.

LANDSING, Jang (1893), Cons. Engr., Wetmore & Landsing, Park Row Bldg., and *for mail*, Boonton, N. J.

LANE, J. S. (1882), 50 Church St., and 283 Highland Blvd., Brooklyn.

LANG, Charles (Junior, 1905), N. Y. Mgr., C. H. Wheeler Mfg. Co., 114 Liberty St., and 348 Jefferson Ave., Brooklyn.

LAPE, Willard E. (1890), Engr. and Contr., 90 West St., and 109 Dodd St., East Orange, N. J.

LAWRENCE, Howard F. (Junior, 1908), Asst. Switchboard Operator, N. Y. Edison Co., Waterside Sta., and *for mail*, 217 W. 110th St.

LEE, Robert E. (Junior, 1907), Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St.

LEMOINE, L. R. (Associate, 1887), Genl. Mgr., N. J. Zinc Co., 55 Wall St., and 161 Madison Ave.

LENT, Leon B. (1905), N. Y. Mgr., Riverside Engine Co., Terminal Bldg., 50 Church St., and Brewster.

LEWIS, David J., Jr. (1892), Mgr., "Bundy" Dept., Amer. Radiator Co., 104 W. 42d St., and *for mail*, 88 Riggs Pl., South Orange, N. J.

LEWIS, Wm. Y. (1902), Mgr., Erecting Dept., Internat. Steam Pump Co., 115 Broadway, and *for mail*, 301 Barclay St., Murray Hill, Flushing.

LIEB, John W., Jr., (1886), Manager, 1903-1906; V. P., 1906-1908; 3d V. P. and Assoc. Genl. Mgr., N. Y. Edison Co., 55-57 Duane St., and 869 West End Ave.

LIGHTHIPE, Wm. W. (1907), Mgr. Repair Dept., Otis Elev. Co., 17 Battery Pl., and 34 Bay 31st St., Bensonhurst.

LILLIBRIDGE, Ray D. (Associate, 1907), 170 Broadway.

LINTON, Robert (1906), Min. Engr., 52 Broadway, and *for mail*, 109 Security Bldg., also 616 Bixel St., Los Angeles, Cal.

LIPPS, Henry, Jr. (1888; 1891), Contr. Engr., 683 Rosewood St., and *for mail*, 127 Park Ave., Mt. Vernon.

LIVINGSTON, Robert R. (1906), Cons. and Constr. Engr., 2 Rector St., and *for mail*, 605 W. 111th St.

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New York City (Continued)

LOCKWOOD, James Fred (1889; 1907), Mgr., Security Elev. Safety Co., 126 W. 18th St., and *for mail*, Keansburg, N. J.

LONGENECKER, Charles (1892), Pres., Chas. Longenecker & Co., 150 Nassau St., and 46 Sidney Pl., Brooklyn.

LORSCH, Edwin S. (1903), Sussfeld, Lorsch & Co., 37 Maiden Lane, and 2 West 89th St.

LOUD, Henry S. (1901), Ch. Engr., U. S. Wood Preserving Co., 165 Broadway, and *for mail*, Morristown, N. J.

LOW, Fred R. (Associate, 1886), Editor, Power, 505 Pearl St., and 256 Harrison St., Passaic, N. J.

LOYD, John (1899), Pres., John Loyd Co., 558-562 Water St., and 507 Bedford Ave., Brooklyn.

LUCKE, Charles E. (1903; 1908), Prof. Mech. Engrg., Columbia Univ., and 544 W. 142d St.

LUDEMAN, Edwin Henry (Associate, 1904), Steam Engr., 165 Broadway, and *for mail*, 810 E. 19th St., Brooklyn.

LYLE, Joel Irvine (1906), Mgr., Carrier Air Conditioning Co., 39 Cortlandt St., and 1200 W. 7th St., Plainfield, N. J.

LYON, J. Lawrence (Junior, 1906), Sales Dept., Otto Gas Engine Wks., 136 Liberty St., and 320 High St., Pawtucket, R. I.

McCLELLAN, Wm. (1905), V. P., Campion McClellan Co., 90 West St., and 12 Winans St., East Orange, N. J.

McKAY, John Edwards (1895), Principal Asst. Engr., Dept. Water Supply, 13-21 Park Row, and 11 Ridgeview Ave., White Plains.

McKEE, Joseph J. (Associate, 1892), Cons. Engr., Jones & McKee, Room 522, Singer Bldg.

McKIEVER, Wm. Henry (1900), Everett Bldg., Union Sq. N., and *for mail*, 120 Central Park S.

McKINNEY, Robt. C. (1890), Manager, 1902-1905; V. P., 1905-1907; Pres., Niles-Bement-Pond Co., Pratt & Whitney Co., 111 Broadway.

McMILLIN, Emerson (1895), Life Member; Pres., Amer. Light & Traction Co., 40 Wall St., and *for mail*, 320 Riverside Drive.

McNAUGHTON, James (1903), V. P., Am. Loco. Co., 30 Church St., and 402 W. 154th St.

MACDONALD, James V. (Junior, 1895), Builder, 29 W. 34th St., and Hotel Walton, 70th St. and Columbus Ave.

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New York City (Continued)

MACKENZIE, Edmund (1909), Designer, J. G. White & Co., 43 Exchange Pl., 4510 6th Ave., Brooklyn.

MACON, William Watts (Junior 1903), Managing Editor, The Metal Worker, 14 Park Pl., and 472 Decatur St., Brooklyn.

MACPHERSON, James Day (1899), Asst. Ch. Engr., Am. Diesel Eng. Co., 11 Broadway, and *for mail*, 301 E. 161st St.

MAGIN, Frank W. (Junior, 1907), Allis-Chalmers Co., 71 Broadway.

MAHON, Wm. L'E. (1889), Salesman, Taylor Iron & Steel Co., 100 Broadway, and Ann Arbor, Mich.

MARBLE, Harry Mills (Junior, 1893), Solicitor of Patents, 141 Broadway, and 625 Ridge St., Newark, N. J.

MARKS, Harry J. (1907), Mech. Engr., 170 Broadway, and *for mail*, 86 Palmer Ave., Mamaroneck.

MARSHALL, Ernest Woods (1904), Counselor-at-Law, Pat. Expert, 165 Broadway, and 248 Woodworth Ave., Yonkers.

MARSHALL, Waldo H. (1893), Pres., Am. Loco. Co., 30 Church St.

MASON, Daniel A. (1899; 1902), Supt., N. Y. Tribune Bldg., 154 Nassau St., and 372 Stuyvesant Ave., Brooklyn.

MASSEY, Geo. Bragg, 2d (Junior, 1898), Resident Engr., Bucyrus Co., 1274 Hudson Terminal Bldg., 50 Church St., and 11 Belleaire Drive, Montclair, N. J.

MASURY, Alfred Fellows (Junior, 1904), Mech. Engr., Hewitt Motor-Truck Co., and *for mail*, 44 W. 25th St.

MATTHEWS, Fred Elwood (Junior, 1904), Cons. Refrig. Engr., Room 901, 90 West St.

MATTY, Leo. J. (Junior, 1907), Pat. Lawyer, 141 Broadway.

MAYER, Fred J. (1897), Genl. Mgr., Didier-March Co., 50 Church St.

MEIER, E. D. (1891), Manager, 1895-1898; V. P., 1898-1900; Pres., and Ch. Engr., Heine Safety Boiler Co., 11 Broadway, and Ridgefield, Conn.

MEIER, Konrad (1904), Htg. and Ventilating Engr., 122 E. 25th St., and 226 E. 15th St.

MERRIAM, Henry P. (1887; 1896), 243 Waverly Pl.

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New York City (Continued)

MERSEREAU, Theodore T. (1905), Pres., Theo. T. Mersereau, Inc., 80 Broad St., and *for mail*, 448 56th St., Brooklyn.

MERSHON, Ralph D. (1900), Cons. Engr., 60 Wall St., and *for mail*, 116 W. 85th St.

MERZ, Robert G. (Junior, 1907), Mech. Engr. & Ch. Draftsman, Amer. Process Co., 68 William St., and *for mail*, 57 Ninth Ave., Newark, N. J.

MEYER, Henry Coddington, Jr. (1894; 1903), Cons. Mech. Engr., Met. Bldg., 1 Madison Ave., and Montclair, N. J.

MICHEL, Arthur Eugene (1906; Associate, 1908), Adv. Engr., 1572 Hudson Terminal Bldg.

MILLER, Fred J. (1890), Engineers' Club, 32 W. 40th St.

MILLER, Spencer (1888), Ch. Engr., Cableway Dept., Lidgerwood Mfg. Co., 96 Liberty St., and *for mail*, 217 Turrell Ave., South Orange, N. J.

MILLS, Edmund (1903), Marine Dept., Babcock & Wilcox Co., 85 Liberty St., and *for mail*, 319 Arlington Ave., Jersey City, N. J.

MINCK, Peter (Junior, 1909), Mech. Engr., with Peter Minck, 71 Wall St., and 112 Gardner St., Union Hill, N. J.

MITCHELL, Albert E. (1891), V. P., Wyckoff Pipe & Creosoting Co., Inc., 50 Church St., and *for mail*, Strawberry Hill Ave., Stamford, Conn.

MITCHELL, Benjamin M. (1894; 1905), Pres., Conveying Weigher Co., Engr. of Tests, N. Y. Lubricating Oil Co., and Mech. Engr., Manhattan Rubber Mfg. Co., and *for mail*, 244 Lafayette Ave., Passaic, N. J.

MOLÉ, Harvey E. (1901), Lenz & Molé, 71 Broadway.

MONAGHAN, Wm. Franchère (1886), Life Member; Engrg. Dept., N. Y. Edison Co., 55 Duane St., and 117 W. 71st St.

MOORE, Charles A. (Associate, 1880), Pres., Manning, Maxwell & Moore, Inc., 85-89 Liberty St.

MOORE, D. G. (1890), 1 Broadway, and *for mail*, 424 Westminster Ave., Elizabeth, N. J.

MORAN, Daniel E. (1886; 1904), V. P. and Dir., Foundation Co., 115 Broadway, and Mendham, Morris Co., N. J.

MORFORD, Thomas E. (1902), Mgr., N. Y. Office, Amer. Steam Pump Co., 17 Battery Pl.

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New York City (Continued)

MORGAN, Lewis Henry (1904; 1906), Mgr., Crane Dept., Vandyck Churchill Co., and *for mail*, 1336 W. Front St., Plainfield, N. J.

MORGAN, Llewellyn (Junior, 1904), Mech. Engr., Dobbie Fdy. & Mch. Co., 82 Warren St.

MORITZ, Albert (1905), Comdr., U. S. Navy, Retd., 153 E. 73d St.

MORLEY, Ralph (Junior, 1906), Mech. Engr. Transmission Dept., The Fairbanks Co., and *for mail*, 563 9th St., Brooklyn.

MULLANEY, John J. (1901), Pres., Ideal Opening Die Co., 24 West St.

MULLER, Teile H. (1888), Engrs. Dept., Federal Sugar Refining Co., 138 Front St., and *for mail*, 72 W. 131st St.

MUNBY, E. John (1906), 361 Broadway, and *for mail*, 208 W. 59th St., also Baddow Park, Essex, England.

MURPHY, Benjamin Stewart (Junior, 1905), Mech. Inspr., Hudson & Manhattan R. R., 30 Church St., and *for mail*, 254 Fourth St., Jersey City, N. J.

MURRAY, Thomas Edward (1894), 2d V. P. and Genl. Mgr., N. Y. Edison Co., 57 Duane St., and 783 St. Marks Ave., Brooklyn.

MURRIE, John L. (Junior, 1905), Mech. Engr., Pub. Service Com., 1st Dist., Tribune Bldg., and *for mail*, 65 W. 94th St.

MUTHER, Ellis F. (Associate, 1907), Industrial Engr., Gisholt Mch. Co., 50 Church St.

MYERS, David Moffat (Associate, 1907), Cons. Mech. Engr., Room 2401, Park Row Bldg., and 309 W. 70th St.

NATHAN, Alfred (Junior, 1891), Pres., Nathan Mfg. Co., 85 Liberty St., and 36 E. 72d St.

NEAVE, Pierson Mitchell (Junior, 1903), Engr., Western Elec. Co., Bethune and West Sts., and 67 Penn St., Brooklyn.

NEFF, Elmer Hartson (1898), Life Member; N. Y. Mgr., Brown & Sharpe Mfg. Co., Room 700, 20 Vesey St.

NELSON, James W. (Associate, 1904), Mgr., Richard Dudgeon, 82 Broome St., and 61 Livingston St., Brooklyn.

NEWCOMB, Robert Scott (Junior, 1909), Draftsman, N. Y. C. & H. R. R. R. Co., and *for mail*, 225 West End Ave.

NEWELL, Charles Z. (Junior, 1904), Mech. Engr., Federal Leather Co., Suite 202-203, 47 W. 42d St., and *for mail*, 101 N. Broadway, Yonkers.

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New York City (Continued)

NEWELL, Harvey Edgar (Junior, 1901), Mech. Engr., Habirshaw Wire Co., 253 Broadway, and *for mail*, 11 Lincoln Terrace, Yonkers.

NEWELL, William (Junior, 1907), Ch. Insp. of Factory, Fidelity & Casualty Co., 97 Cedar St., and 29 S. Mountain Ave., Montclair, N. J.

NICHOLS, Charles H. (1908), Cons. Engr., 11 E. 24th St.

NICHOLS, William Wallace (1899), V. P. and Secy., Allis-Chalmers Co., 71 Broadway.

NICKERSON, Alvano T. (1901), W. S. Barstow & Co., 50 Pine St., and 622 W. 135th St.

NOBLE, Alfred (1907), Ch. Engr., East River Div., P. T. & T. R. R. Co., 7 E. 42d St., and 501 W. 120th St.

NOLDE, Frederick (Junior, 1901), Sales Agt., De La Vergnè Mch. Co., 138th St. and East River.

NORRIS, Henry Lee (Junior, 1904), Supt. Bldgs. and Grounds, Columbia Univ., and Livingston Hall, Columbia Univ.

NORRIS, James U. (Junior, 1907), Supt., Rockefeller Inst. for Medical Research, 66th St. and Ave A.

NORTHRUP, Francis B. (Junior, 1905), Mech. Engr., Amer. Diesel Eng. Co., 11 Broadway, and *for mail*, 106 Day St., Orange, N. J.

OBERT, Casin W. (Associate, 1904), Assoc. Editor, Engineering Record, 239 W. 39th St., and *for mail*, 255 Marlborough Road, Flatbush, L. I.

OLIPHANT, J. Norris (Junior, 1902), 20 Broad St.

O'NEIL, Frederick Wm. (1901; 1908), N. Y. Mgr., Nordberg Mfg. Co., Room 1009, 42 Broadway, and 260 Pelham Rd., New Rochelle.

ORR, Alexander Macklin, Jr. (Junior, 1898), Mgr., H. J. Gielow, Engr., Naval Arch. and Marine Broker, 50 Broadway, and *for mail*, 132 E. 72d St.

ORROK, Geo. A. (1902), Mech. Engr., N. Y. Edison Co., 55 Duane St., and *for mail*, 232 E. 17th St., Flatbush.

OSBORNE, Charles T. (1908), Mech. Engr., Osborne, Rea & Co., 241 W. 41st St., and 254 W. 100th St.

OSTRANDER, Allen Edward (Associate, 1905), Asst. Mech. Engr., Am. Car & F'dy. Co., 165 Broadway, and 33 18th Ave., Paterson, N. J.

OVIATT, David B. (1891), 172 W. 109th St.

PALMER, Cortlandt E. (1895), Cons. Min. Engr., 71 Broadway, and Hotel Collingwood, 45 W. 35th St.

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New York City (Continued)

PARKER, Levin S. (1908), Mech. Engr., Atlantic Gulf and Pacific Co., 2407 Park Row Bldg.

PARSON, Chas. H. (Junior, 1906), Secy. and Treas., Parson Mfg. Co., Singer Bldg.

PARSONS, H. de B. (1885; 1887), Prof. Emeritus, Rensselaer Poly. Inst., and *for mail*, Cons. Engr., 22 William St., and 294 Madison Ave.

PARSONS, W. Everett (1899), Cons. Engr., 12 Bridge St., and *for mail*, 134 Third Ave., Newark, N. J.

PARSONS, Willard P. (1884), Secy. and Treas., Genl. Coke & Gas Co., 51 Wall St., and 285 Lincoln St., Flushing, L. I.

PATTISON, Frank A. (1903), Cons. Engr., Broadway, 5th Ave., and 23d St., and Colonia, N. J.

PAYNE, Nathan B. (Junior, 1903), Mgr., Gov. Dept., Manning, Maxwell & Moore, 85 Liberty St., and 53 Washington Sq.

PEABODY, E. H. (1900), Marine Dept., Babcock & Wilcox Co., 85 Liberty St.

PEARSON, F. S. (1899), Life Member; Cons. Engr., 25 Broad St., and Great Barrington, Mass.

PECK, Chas. B. (1903; 1905), Mgr., B. F. Sturtevant & Co., 50 Church St., and 284 Halsey St., Brooklyn.

PELLISSIER, George E. (Associate, 1909), Ch. Engr., Goldschmidt Thermit Co., 90 West St., and 510 W. 143d St.

PENDLETON, Frank E. (Junior, 1902), Ch. Engr., N. Y. Steam Co., 140 Cedar St., and Erwin Park Road, Montclair, N. J.

PERRY, Samuel B. (Junior, 1895), 72 William St., and Hollis, L. I.

PERRY, Wm. A. (1880), 1 Nassau St. and *for mail*, 2d Ave and 71st St., Bay Ridge.

PHELPS, Charles C. (Junior, 1909), Gage Pub. Co., 114 Liberty St.

PHILLIPS, Ellis L. (Junior, 1901), Cons. Engr., Room 1663, 50 Church St., and 622 W. 135th St.

PIERCE, Walter L. (Associate, 1888), Secy. and Genl. Mgr., Lidgerwood Mfg. Co., 96 Liberty St., and Hutchinson Park, Englewood, N. J.

PLACE, Clyde R. (Associate, 1907), Mech. Engr., 314 Madison Ave., and 15 Wadsworth Ave.

PLATT, John (1889; 1890), Pres., John Platt & Co., 97 Cedar St., and Westfield, Union Co., N. J.

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New York City (Continued)

POLK, Wm. Anderson (Associate, 1904), Mgr., Rwy. Dept., Patterson-Sargent Co., 8 Jay St., and 25 Westchester Ave., White Plains.

POLLAK, Charles P. (Associate, 1901), Eastern Sales Agt., Wickes Boiler Co., 1411 West St. Bldg.

POMEROY, L. R. (1890; 1909), Asst. to Pres., Safety Car Htg. & Ltg. Co., 2 Rector St., and 24 Reynolds Terrace, Orange, N. J.

POND, Henry O. (1904; 1907), Engr. and Supt. of Piping, Westinghouse, Church, Kerr & Co., 8 Bridge St., and Tenafly, N. J.

PORTER, H. Hobart (1902), 52 William St., and Lawrence, L. I.

PORTER, Holbrook F. J. (1880; 1884), Cons. Industrial Engr., Metropolitan Bldg., 1 Madison Ave.

POST, George Adams, Jr. (Junior, 1906), Asst. to Pres., Ry. Business Assoc., 2 Rector St., and 109 Cleveland St., Orange, N. J.

POWELL, Marcus (Associate, 1897), Sales Mgr., Crosby Steam Gauge & Valve Co., 16 Dey St., and 1081 Dean St., Brooklyn.

PRATT, Charles Richardson (1896), Cons. Engr., 1123 Broadway, and 39 Gates Ave., Montclair, N. J.

PRESSINGER, W. P. (Associate, 1903), W. P. Pressinger Co., 1 W. 34th St.

PRESTON, Geo. B. (1891; 1900), Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St., and Leonia, N. J.

PRIMROSE, John (1907), Ch. Engr., Power Specialty Co., 111 Broadway.

PROAL, Arthur B., Jr. (1905), Sales Engr., Robins Conveying Belt Co., Hudson Terminal, Cortlandt Bldg., and *for mail*, 176 Grant Ave., Nutley, N. J.

PROSSER, Thomas (Associate, 1893), Thomas Prosser & Son, 15 Gold St., P. O. Box 878, and 387 Stuyvesant Ave., Brooklyn.

PRYOR, Robert W., Jr. (Junior, 1907), Sales Engr., Buffalo Forge Co., 39 Cortlandt St.

QUEREAU, C. H. (1892), Supt. Elec. Equipment, N. Y. C. & H. R. R. R., and Room 1245, 335 Madison Ave.

QUICK, Howard Prescott (1894), Asst. Engr., with F. S. Pearson, Cons. Engr., Mexico & South American Tramway Cos., Broad Exchange Bldg., 25 Broad St.

QUIMBY, William E. (1889; 1905), Pres., Wm. E. Quimby, Inc., 3 W. 29th St., and Llewellyn Park, Orange, N. J.

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New York City (Continued)

RAQUÉ, Philip E. (1891), Cons. Engr., 150 Broadway, and 82 Booraem Ave., Jersey City, N. J.

RAUTENSTRAUCH, Walter (Junior, 1904), Prof. Mech. Engrg., Columbia Univ.

RAY, David H. (Associate, 1904), Instr., Col. City of New York, 140th St. and Convent Ave., and *for mail*, 2273 Creston Ave., Bronx.

RAY, Frederick (Junior, 1903), Ch. Engr., Alberger Pump Co., 95 Liberty St., and 19 Wilcox Pl., East Orange, N. J.

RAYMOND, Ralph (Junior, 1900), Telephone Engr., Western Elec. Co., 463 West St., and Nutley, N. J.

REARICK, Chas. Bemis (1892; 1901), V. P. and Genl. Mgr., Atwood-Rearick Co., Hudson Terminal Bldg., 30 Church St.

REESE, Dale Fleming (Junior, 1907), Supt. Steam Boiler Dept., Ocean Accident & Guarantee Corp., Ltd., 59 John St., and 311 Belleville Ave., Newark, N. J.

REEVE, Sidney A. (1901), Cons. Engr., Rotary Meter Co., 280 Broadway, and *for mail*, 469 Edgewood Ave., New Haven, Conn.

REID, Robert C. (1907), Hewitt Motor Co., 10 E. 31st St., and *for mail*, Englewood, N. J.

REIS, Leslie R. (Junior, 1903), Mech. Engr. and Contractor, Reis & O'Donovan, 1123 Broadway, and *for mail*, 609 West End Ave.

RENWICK, Edward S. (1882), Mech. Engr. and Expert, 19 Park Pl., and Short Hills, N. J.

REYNOLDS, John P., Jr. (Junior, 1902), Mech. Engr., Dept. of Water Supply, Park Row Bldg.

RICE, Calvin W. (1900), Cons. Engr., Secretary, Am. Soc. of M. E., 29 W. 39th St., and 241 N. Mountain Ave., Upper Montclair, N. J.

RICHARDS, Charles R. (1890), Dir., Cooper Union, and 175 Second Ave.

RICHARDS, Francis H. (1880), Life Member, Mech. Engr., Pat. Atty., Prop., Mch. & Pattern Shops, Franklin Bldg., 9-15 Murray St., and res., Hartford, Conn.

RICHARDS, Frank (1891), Managing Editor, Compressed Air, and Ingersoll-Rand Co., 11 Broadway, and *for mail*, 229 W. 135th St.

RICHARDSON, Clifford (Associate, 1894), N. Y. Testing Lab., Room 1826, Cortlandt Bldg., 30 Church St.

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New York City (Continued)

RICHARDSON, Levi S. (1909), Draftsman, N. Y. Edison Co., and *for mail*, Rosebank, S. I.

RICHARDSON, Thomas (1907), Ch. Draftsman, W. S. Barstow & Co., 50 Pine St., and *for mail*, 9 Concord St., South Norwalk, Conn.

RICHMOND, Julian (1903; Associate, 1908), Asst. Engr., Board of Water Supply, 299 Broadway, and Dunwoodie Heights, Yonkers.

RICKER, Wm. Wood (1906), Secretary and Treas., Guarantee Constr. Co., 90 West St., and Engineers' Club, 32 W. 40th St.

RICKETTS, Edwin B. (Junior, 1908), Chemist, N. Y. Edison Co., 666 First Ave., and 1065 Boston Rd.

ROBINSON, Frank H. (1903), Treas., Walter H. Foster Co., 1479 Fulton Bldg., 50 Church St.

ROBINSON, J. M. (1885), Pres., Crex Carpet Co., 377 Broadway, and *for mail*, Englewood, N. J.

ROELKER, H. B. (1889), Mech. Engr., 41 Maiden Lane, and 43 W. 97th St.

ROGERS, Fred. E. (Associate, 1907), Editor, Machinery & Railway Machinery, 49-55 Lafayette St., and *for mail*, 6 Garfield Pl., East Orange, N. J.

ROGERS, Robert W. (Junior, 1908), Pioneer Pub. Co., 1 Madison Ave., and 35 W. 92d St.

RONEY, William R. (1889), Pres., Guanajuato Dev. Co., 40 Wall St., and Endicott Hotel.

ROSE, William Holliday (Junior, 1901), 220 Broadway.

ROSS, Charles Everett (1900), Cons. Engr., 165 Charles St.

ROWLEY, Harry Wm. (1896), Salesman, Allis-Chalmers Co., 71 Broadway, and 253 Garfield Pl., Brooklyn.

ROYSE, Daniel (1891; 1904), Asst. to Dir. of Purchases, Union Pacific R. R., 120 Broadway.

RUGGLES, Wm. Barker (1905), Pres., Ruggles-Coles Engrg. Co., 50 Church St., and 91 W. 5th St., Bayonne, N. J.

RUTHERFORD, Eugene W. (Associate, 1904), U. S. Rubber Co., 42 Broadway, and *for mail*, 231 Jefferson Ave., Brooklyn.

SANBORN, Francis Noel (Junior, 1895), Mech. Engr., 29 Wall St., and *for mail*, 47 Brevoort Pl., Brooklyn.

SANDERSON, Edwin N. (1903), Sanderson & Porter, 52 William St., and 147 Rugby Road, Prospect Park S., Brooklyn.

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New York City (Continued)

SANGUINETTI, Percy A. (1886), Cons. Engr., 120 Liberty St., and *for mail*, 410 St. Nicholas Ave.

SARGENT, William Durham (1896), Pres., Reading Steel Casting Co., West St. Bldg., Pres., Quincy, Manchester, Sargent Co., 90 West St., and Hutton Park, West Orange, N. J.

SAUNDERS, William Lawrence (1906), Pres., Ingersoll-Rand Co., 11 Broadway, and 112 Rockview Ave., Plainfield, N. J.

SCHAEFFER, Simon (Junior, 1904), Mech. Engr., Griscom-Spencer Co., 90 West St., and 16 Livingston Pl.

SCHEELE, John M. B. (Junior, 1900), 1479 Fulton Bldg., 50 Church St.

SCHEFFLER, Frederick A. (1883), Babcock & Wilcox Co., 85 Liberty St., and *for mail*, 293 Ridgewood Ave., Glen Ridge, N. J.

SCHMIDT, Chas. R. (1895), V. P., Central Fdy. Co., 37 Wall St., and 200 E. 24th St., Baltimore, Md.

SCHNUCK, Edward F. (1897; 1901), Production Engr., Treas., Jabez Burns & Sons, 600 W. 43d St.

SCHOLL, Julian (1889; 1900), Mech. Engr., and Mfr. Road Making Mchy., 126 Liberty St.

SCHOOLFIELD, Frank R. (1907), Ch. Draftsman, Ford, Bacon & Davis, and *for mail*, 177 Park Pl., Brooklyn.

SCHUETZ, Frederick F. (Junior, 1903), Solicitor Patents and Mech. Engr., Hudson Terminal Bldg., 50 Church St., and 65 Hedden Terrace, Newark, N. J.

SCHWANHAUSSER, William (1888), Ch. Engr., Internat. Steam Pump Co., 115 Broadway, and *for mail*, 387 Sterling Pl., Brooklyn.

SCHWARTZ, Carl (1906), Engr. Power Stations, N. Y. C. & H. R. R. R. Co., Grand Central Sta., Room 1231, and 2100 Fifth Ave.

SCRIBNER, Charles W. (1889), Mech. Engr., 39 Cortlandt St., and *for mail*, Park Ave., Plainfield, N. J.

SEAMAN, Edwin H. (Junior, 1908), Fire Ins. Insp., Am. Lloyds, 45 Cedar St., and *for mail*, Box 66, Wantagh, Nassau Co.

SEAMAN, Henry B. (1896), Life Member; Ch. Engr., Pub. Service Com., Tribune Bldg., and 140 Clinton St., Brooklyn.

SEARING, Hudson R. (1893), 204 W. 132d St.

SEARS, Richard H. (Junior, 1901), Genl. Real Estate, 22 E. 34th St.

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New York City (Continued)

SEE, Alonzo B. (1909), Owner, A. B. See Elec. Elev. Co., 220 Broadway.

SERGEANT, Chas. H. (1895), 611 W. 138th St.

SERRELL, Harold (Associate, 1904), Fulton Bldg., 87 Nassau St., and 36 Myrtle Ave., Plainfield, N. J.

SERRELL, John A. (1895), 200 5th Ave., and Plainfield, N. J.

SEWALL, M. W. (1899), Babcock & Wilcox Co., 85 Liberty St., and 222 4th Ave., W., Roselle, N. J.

SIMPSON, Colin C. (1907), Asst. Secy. and Genl. Supt. of Distribution, Cons. Gas Co., of N. Y., 4 Irving Pl.

SIMPSON, William K. (Junior, 1909), Mech. Engr., Nason Mfg. Co., 71 Fulton St.

SINCLAIR, Angus (1883), Editor and Publisher, 114 Liberty St., and *for mail*, 400 Clinton Ave., Newark, N. J.

SLADE, Arthur J. (1904), Cons. Engr., Room 403, Times Bldg., 42d St. and Broadway, and 172 E. 72d St.

SLATER, F. R. (Junior, 1894), Cons. Engr., Latey & Slater, Engrs., 100 Broadway, and 14 Arthur St., Yonkers.

SLAUSON, Harold Whiting (Junior, 1908), Assoc. Tech. Press Bureau, 25 W. 42d St., Lock Box 27, Times Sq. Sta., and *for mail*, 513 W. 134th St.

SMITH, A. Parker (1887), Lawyer, Counsel in Pat. Cases, U. S. Express Bldg., 2 Rector St., and 1958 E. 13th St., Brooklyn.

SMITH, Augustus (1902), Contractor, 149 Broadway.

SMITH, Chas. F. (1889), Cons. Elec. and Mech. Engr., 18 Broadway, and 252 Carlton Ave., Brooklyn.

SMITH, Jesse M. (1883), Manager, 1891-1894; V. P., 1894-1896 and 1899-1901; Pres., 1908-1909; Life Member; Mech. and Elec. Engr., and Expt. in Pat. Causes, Room M-14, 220 Broadway, and 120 Riverside Drive.

SMITH, Julian C. (1907), Pres. and Mgr., Vacuum Specialty Co., 1st Ave. and 36th St., and Douglaston, L. I.

SMITH, J. Waldo (1896), Chief Engr., Board of Water Supply, City of N. Y., 299 Broadway, and 136 Madison Ave.

SMITH, Otto T. R. (1906), Asst. Engr., Engrg. Dept., Otis Elevator Co., 17 Battery Pl., and *for mail*, 824 St. Nicholas Ave.

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New York City (Continued)

SORZANO, Julio Frederico (1884), Life Member; Cons. Civil and Mech. Engr., 52 Broadway, and *for mail*, 228 Garfield Pl., Brooklyn.

SPARROW, John Porterfield (1898), Ch. Engr., N. Y. Edison Co., 55 Duane St., and 279 E. 16th St., Brooklyn.

SPEER, Chas. Henry (Associate, 1907), Carr & Speer, Metallurgical and Mech. Engrs., 120 Liberty St.

SPENCER, J. Beaumont (Junior, 1907), Mech. Engr., Griscom-Spencer Co., 90 West St., and *for mail*, 929 West End Ave.

SPIES, Albert (1884), Editor, The Electrical Record, 114 Liberty St., and *for mail*, 40 Glenwood Ave., Jersey City Heights, N. J.

SPILSBURY, Edmund Gybbon (1890), Cons. Engr., 45 Broadway, and 23 Park Pl., New Rochelle.

SPIRO, Charles (1908), Pres. and Genl. Mgr., Columbia T. W. Mfg. Co., 39 W. 116th St., and *for mail*, 10 W. 121st St.

STANGLAND, B. F. (1889; 1892), Mech. Engr., 45 Fulton St., and 157 W. 123d St.

STANTON, Alden D. (Junior, 1909), Ch. Draftsman, Dept. Bldgs. and Grounds., Columbia Univ., and *for mail*, 378 Greene Ave., Brooklyn.

STANTON, Frank McMillan (1892), Life Member, Room 409, 225 Fifth Ave.

STARR, John Edwin (1905), Pres., Starr Engrg. Co., 50 Church St., and 14 W. 12th St.

STEBBINS, Theodore (1903), Room 1925, 165 Broadway.

STEHLIN, Joseph (Associate, 1905), Pres. and Treas., Stehlin Miller Co., Terminal Bldg., 41st St. and Park Ave., and *for mail*, Treas., Farmers Feed Co., 532 E. 76th St., also The Van Cortlandt, 96th St. and Park Ave.

STEVENS, Alfred H. (1898; 1903), Engr. and Contr., 149 Broadway, and *for mail*, 806 Washington Ave., Brooklyn.

STEVENS, Robt. H. (Junior, 1903), Stevens Bros., Engrs. and Contrs., 149 Broadway, and 780 E. 14th St., Brooklyn.

STEVENS, Wm. N. (Junior, 1886), V. P., Conveying Mchy. Co., 120 Liberty St., and The Van Anden, 61 Pierrepont St., Brooklyn.

STEVENSON, T. Kennedy (Junior, 1908), Duplex Metals Co., 149 Broadway, and Princeton Club, Gramercy Park.

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New York City (Continued)

STILLMAN, Austin Frank (Junior, 1907), Watson-Stillman Co., Terminal Bldg., 50 Church St., and Hampton Hall, Cranford, N. J.

STILLMAN, Edwin A. (Junior, 1908), Watson-Stillman Co., 50 Church St.

STILLMAN, F. H. (1887), Pres., Watson-Stillman Co., and Bridgeport Motor Co., Terminal Bldg., 50 Church St., and 105 Rodney St., Brooklyn.

STIRLING, Allan (1880), Manager, 1881-1884; V. P., 1885-1887; Life Member; Treas., The Maxim Co., 130 Fulton St.

STONE, Wilbur M. (1886; 1891), Mech. Engr. and Pat. Expert, Room 1025, Park Row Bldg., and 1240 Flatbush Ave., Brooklyn.

STOTT, Henry G. (1902), Manager, 1907-1910; Supt. M. P., I. R. T. Co., 600 W. 59th St., and Rochelle Heights, New Rochelle.

STOVEL, Russell W. (1902; 1907), Westinghouse, Church, Kerr & Co., 10 Bridge St., and 48 Watchung Ave., Montclair, N. J.

STRANAHAN, O. A. (1900), Engineers' Club, 32 W. 40th St.

STRATTON, E. Platt (1883), Engr., and Naval Arch., Cons. Engr., Surveyor to "The Board of Underwriters of N. Y.," 66 Beaver St., and 125 S. 13th St., College Point, Borough of Queens.

STREET, Edgar L. (1903), Cons. Engr., 43 Cedar St., and 841 West End Ave.

SUPLEE, Henry Harrison (1888), Mgr., 1897-1900; Pres., Cassier Magazine Co., and Editor, Cassier's Magazine, 12 W. 31st St., and 203 W. 81st St.

SUTER, Geo. A. (1883; 1893), 112 Wooster St., and *for mail*, New Rochelle.

SUTTON, Frank (1907), Cons. Engr., 91-93 Wall St., and Babylon, L. I.

SWAN, John Joseph (1899; 1909), Cons. Engr., 1 W. 34th St., and Plainfield, N. J.

SWENSON, Bernard Victor (1903), Secy. and Treas., Amer. St. & Interurban Ry. Assn., 29 W. 39th St.

SYMONDS, George P. (1908), Ch. Engrg. Dept., Alberger Condenser Co., 95 Liberty St.

TAIT, Godfrey M. S. (1906; 1907), Pres., Gas Power Co., 2 Rector St., and 39 Upper Mountain Ave., Montclair, N. J.

TAYLOR, Frank H. (1908), 995 Madison Ave.

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New York City (Continued)

TAYLOR, George W. K. (1907), 104-106 John St.

TAYLOR, John T. (1891), Supt., 156 Fifth Ave.

TAYLOR, Stevenson (1886), V. P., 1899-1901; V. P., Quintard Iron Wks. Co., 742 E. 12th St.

TAYLOR, Wyatt W. (Associate, 1908), Cons. Engr., 2 Rector St., and Spuyten Duyvil.

TEN BROECK, Floyd G. (1903), Cons. Engr., Fifth Ave. Bldg., 200 Fifth Ave., and 1421 Glenwood Rd., Brooklyn.

THOMAS, Charles W. (1888), Prof. Mech. Dept., Columbia Univ.

THOMAS, James Winthrop (1905), care Westinghouse, Church, Kerr & Co., 10 Bridge St.

THOMPSON, Edward P. (1884), M. E., 34 E. 32d St.

THOMSON, John (1887), Manager, 1892-1895; Pres., John Thomson Press Co., 253 Broadway, and Hotel St. Andrew, 72d St. and Broadway.

THOMSON, J. Stewart (Junior, 1901), V. P. and Treas., 114 Liberty St., and *for mail*, P. O. Box 292, Little Falls, N. J.

THOMSON, T. Kennard (1907), Cons. Engr., Hudson Terminal Bldg., 50 Church St., and Yonkers.

THORP, Frederick P. (Junior, 1902), Power & Mining Mchy. Co., 115 Broadway.

THRESHER, Alfred A. (1903), Cons. Engr., 29 Broadway.

THURSTON, Edward D., Jr. (Junior, 1909), Asst. Dept. Mech. Engrg., Columbia Univ., and *for mail*, 617 W. 113th St.

TIMMIS, Walter S. (1906), Cons. Engr., 150 Nassau St., and Avondale St., Brooklyn Manor, Woodhaven, L. I.

TISCHNER, Charles F., Jr. (Junior, 1903), Pat. Atty., 141 Broadway, and *for mail*, 397 Fourth St., Brooklyn.

TORRANCE, Henry, Jr. (1897; 1902), Mgr., Hudson Terminal Bldg., 50 Church St., and Tenafly, N. J.

TORREY, Herbert Gray (1890), Life Member; U. S. Assayer, U. S. Assay Office, 30 Wall St., and Stirling, N. J.

TOWL, Forrest M. (1890), Cons. Engr., 26 Broadway, and 794 Carroll St., Brooklyn.

TOWN, Frederic Edwd. (1905), Supt. of Constr., Otis Elevator Co., 17 Battery Pl., and Westfield, N. J.

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New York City (Continued)

TOWNE, Thos. (Associate, 1895), Eastern Sales Agent, Union Drawn Steel Co., Washington and Canal Sts., and 593 Riverside Drive.

TRAUTSCHOLD, Reginald (Junior, 1904), Mgr., Intercontinental Engrg. Co., 126 Liberty St., and 90 Upper Mountain Ave., Montclair, N. J.

TROTH, P. Howard (1903), care The Fairbanks Co., Broome and Lafayette Sts.

TRUELL, Karl O. (Associate, 1906), Colloseus Cement Co., 5 Nassau St.

TUCKER, Edwin D. (1898), Mech. Engr., 308 W. 104th St.

TURNER, Charles P. (Associate, 1907), Constr. Foreman, Genl. Elec. Co., and N. Y. Edison Co., Waterside, No. 2, 40th St. and 1st Ave., and *for mail*, 431 E. 138th St.

TURNER, John (1896), Cons. Engr., 524 Tribune Bldg., and *for mail*, 33 S. Walnut St., East Orange, N. J.

TUSKA, Gustave R. (1900), Cons. Engr., 68 William St., and 63 E. 52d St.

TUTTLE, Irving E. (Junior, 1909), Mech. Draftsman, Westinghouse, Church, Kerr & Co., and *for mail*, 198 Greene Ave., Brooklyn.

ULMANN, Chas. J. (1886), Mech. Engr., Bernhard Ulmann & Co., 107-113 Grand St.

ULRICH, Max Julius (1906), Ch. Draftsman, Alberger Condenser Co., 95 Liberty St.

UPSON, Maxwell Mayhew (1901; Associate, 1907), Secy., Ch. Engr. and Genl. Mgr., Raymond Concrete Pile Co., 140 Cedar St., and Chestnut St., Englewood, N. J.

VANDERBILT, Aaron (1880; 1884; 1908), Life Member; Army and Navy Club, and Westhampton L. I.

VANDERBILT, Cornelius (1899; Associate, 1901), 30 Pine St., and *for mail*, 677 Fifth Ave.

VAN DERHOEF, Geo. Nixon (1893; 1898), Eastern Cons. Engr., Dodge Mfg. Co., Cedar and Washington Sts., and Arlington, N. J.

VAN WINKLE, Edward (1904; 1908), Cons. Patent Engr., West St. Bldg., Cedar and West Sts., and The Stuyvesant, 483 Park Pl., Brooklyn.

VEIT, Richard C. (1891), Mgr., Marine Dept., Standard Oil Co., 26 Broadway, and 171 W. 71st St.

VEITCH, Thomas (Junior, 1901), Cons. Auto. Engr., 1851 Broadway, and *for mail*, Haworth, N. J.

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New York City (Continued)

VERASTEGUI, Albert de (1889), Mgr., Export Dept., Babcock & Wilcox Co., 85 Liberty St.

VICKESS, Samuel (1901), Cons. Engr., 107 Front St.

VINCENT, Arthur S. (Associate, 1909), Cons. Engr., Power Plant, Belnord Apts., and *for mail*, 1532 47th St., Brooklyn.

VON GOEBEN, Carl (1899), Engr. and Contr., 140 Cedar St., and *for mail*, 308 W. 80th St.

VOORHEES, Gardner Tufts (1900), Refrig. Engr., Engineers' Club, 32 W. 40th St.

WAITT, Arthur M. (1893), V. P., 1900-1902; Cons. Engr., Rooms 1417-1418, 165 Broadway, and "Landheim," Sharon, Conn.

WALDO, Leonard (1894), Cons. Engr., Room 802, Atlantic Bldg., 49 Wall St., and *for mail*, 640 W. 8th St., Plainfield, N. J.

WALDRON, Frederick A. (1890; 1896), Industrial Engr., Room 2412, 37 Wall St., and 120 Crescent Ave., Plainfield, N. J.

WALES, Chas. M. (1890), Agt., Cleveland City Forge & Iron Co., 11 Broadway, and 468 Riverside Drive.

WALLACE, Jos. H. (1897; 1901), Industrial Engr., Temple Court Bldg., and 604 W. 115th St., and 125 High Holborn, London, W. C., England.

WARMAN, William A. (1908), Supt. and Designer, Keller Mech. Engraving Co., 570 W. Broadway.

WATERS, Rossiter L. (Junior, 1903), Hedden Constr. Co., 1 Madison Ave., and *for mail*, 355 W. 145th St.

WATSON, Henry D. (1897; 1900), Sales Dept., Asst. Mgr., Westinghouse Mch. Co., 165 Broadway, and 136 E. 19th St., Flatbush, Brooklyn.

WEBER, Herman Frederick (Junior, 1908), Asst. Engr., 62 Cedar St., and *for mail*, 815 E. 169th St.

WEBSTER, Hosea (1883), Sales Mgr.. Babcock & Wilcox Co., 85 Liberty St., and *for mail*, 174 Mountain Ave., Montclair, N. J.

WEICK, Charles William (1901), Instr. in Industrial Math. and Mech. Drawing, Teachers' College, Columbia Univ., and 507 W. 124th St.

WELLS, George Augustus (1905), Ch. Engr., Adams Express Co., 61 Broadway.

WELLS, James Hollis (1904), Member of Firm, Clinton & Russell, Archs., 32 Nassau St.

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New York City (Continued)

WELLS, J. Leland (1885), Pres., Wells & Newton Co., 292 Ave. B, and *for mail*, Amityville, L. I.

WESTINGHOUSE, H. Herman (1884), Manager, 1889-1892; V. P., 1904-1906; Life Member; V. P., Westinghouse Air Brake Co., 165 Broadway.

WESTON, Frederick W. (Associate, 1907), Rep., Baldwin Loco. Wks., Standard Steel Wks. Co., 50 Church St., and 14 W. 48th St.

WHEELER, Frederick Meriam (1880), Life Member; Wheeler Condenser & Engrg. Co., West St. Bldg., 90 West St., and *for mail*, 159 Gates Ave., Montclair, N. J.

WHEELER, Wm. Trimble (1905), Genl. Mgr., Trinity Engrg. Co., 90 West St., and 340 W. 21st St.

WHINERY, Samuel (1895), Cons. Civil Engr., 95 Liberty St., and *for mail*, 203 Glenwood Ave., East Orange, N. J.

WHITCOMB, Leroy Albert (Junior, 1909), N. Y. Edison Co., Waterside Sta., and *for mail*, 516 Jefferson Ave., Brooklyn.

WHITE, Harry Clinton (Junior, 1898), Jenkins Bros., 71 John St., and *for mail*, P. O. Box 2125.

WHITE, Merton G. (Junior, 1906), Mgr. Sales Dept., A. D. Granger Co., 90 West St.

WHITEHURST, Herbert C. (Junior, 1908), Draftsman and Designer, Evans, Almirall & Co., 281-3 Water St.

WHYTE, Frederic M. (1902), V. P., 1908-1910; Genl. Mech. Engr., N. Y. Central Lines, 610 Grand Central Sta., and *for mail*, 14 Benedict Ave., Tarrytown.

WILDER, Clifton W. (1907), Asst. Elec. Engr., Pub. Service Com., 1st Dist., N. Y. State, 154 Nassau St., and *for mail*, 406 E. 21st St., Brooklyn.

WILE, Julius I. (1904; 1908), Sales Mgr. Producer Dept., Gas Mchy. Co., 56 Pine St.

WILEY, Wm. H. (1880), Treasurer, 1884-1909; 43-45 E. 19th St., and 73 Halstead St., East Orange, N. J.

WILKINS, I. Chester G. (1899; 1908), Mech. Engr., Thompson-Starrett Co., 51 Wall St.

WILLARD, Lewis Leigh (Associate, 1907), Engr., Allis-Chalmers Co., and *for mail*, 922 Prospect Pl., Brooklyn.

WILLIAMS, Franklin (Associate, 1896), Engrg. Specialties, 39 Cortlandt St.

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New York City (Continued)

WILLIAMSON, Alfred (Junior, 1902), Mech. Engr., Dept. Water Supply, Gas & Elec., 13 Park Row, and Pelham.

WILNER, E. Ralph (Junior, 1903), Genl. Mgr., Manhattan Screw & Stamping Wks., West End Ave. and 67th St., and *for mail*, 133 W. 12th St.

WILSON, Jacob D. (Junior, 1903), Pres., Genl. Mgr. and Mech. Engr., Amer. Elevator Co., 113-115 Cedar St., and *for mail*, Rockaway Ave., Boonton, N. J.

WILSON, James Wright (Associate, 1907), Salesman, Westinghouse Mch. Co., 165 Broadway, and 1111 Dean St., Brooklyn.

WILSON, Lester G. (1903; Associate, 1907), Secy., and Mech. Engr., Jas. G. Wilson Mfg. Co., 3 W. 29th St.

WILSON, Wm. R. (Junior, 1899), Alberger Condenser Co., 95 Liberty St., and *for mail*, 224 Palisade Ave., Yonkers.

WINSHIP, James G. (1891), Internatl. Steam Pump Co., 115 Broadway, and *for mail*, 1248 Pacific St., Brooklyn.

WINSHIP, Walter E. (1908), Advisory Engr., Gould Coupler Co., Sales Engr., Gould Storage Battery Co., and *for mail*, 82 W. Washington Pl.

WINTZER, Rudolph (1908), Power & Mining Mchy. Co., 115 Broadway.

WOOD, Henry Shotwell (1907), Cons. Engr., 1825 Park Row Bldg., and *for mail*, P. O. Box 4, Glen Ridge, N. J.

WOODWARD, Robert S., Jr. (Junior, 1904), Cons. Engr., 2 Wall St.

WOODWELL, Julian E. (1900; 1908), Cons. Engr., Terminal Bldg., Park Ave. and 41st St.

WOOLSON, Harry Thurber (1907), Ch. Draftsman, Engrg. Dept., Gas Engine & Power Co., and Chas. L. Seabury & Co., and *for mail*, Lawton St., Lincoln Park, Yonkers.

WOOLSON, Ira H. (1896), Adj. Prof. Civil Engrg., Columbia Univ.

WOOLSON, Orosco C. (1886), Constr. Engr. and Contr., 118 Havemeyer Bldg., 26 Cortlandt St., and 239 Mt. Pleasant Ave., Newark, N. J.

WORTH, Charles C. (1908), Asst. Supt. Constr., N. Y. Edison Co., 55 Duane St.

WRIGHT, James Knox (1894), Cons. Engr. and Mfr., Wright's Pat. Safety Stop, 136 Liberty St., and 94 Hamilton Pl.

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New York City (Continued)

WRIGHT, Roydon V. (1907), Managing Editor, Amer. Engr. and R. R. Journal, 140 Nassau St., and *for mail*, 285 N. 20th St., East Orange, N. J.

WYNKOOP, Hubert S. (1908), Elec. Engr., Dept. Water Supply, Gas and Elec., 13-21 Park Row, and *for mail*, 1574 50th St., Brooklyn.

YORK, H. W. (1894), Cons. Engr., Amer. Smelting & Refining Co., 165 Broadway, and 121 Bay 26th St., Bensonhurst, L. I.

YOUNG, Walter D. (1900), Cons. Elec. and Mech. Engr., 237 Fulton St., and 226 Pleasant St., and *for mail*, 309 Oakdale Rd., Roland Park, Baltimore, Md.

ZEHNDER, Chas. H. (1890), Pres., Austen Coal & Coke Co., 140 Cedar St., and Allenhurst, N. J.

Niagara Falls

EGBERT, Charles Coggill (1906), Mech. Engr., Niagara Falls Power Co., and Can. Niagara Power Co., 52 Gluck Bldg., and Niagara Club.

GOBEILLE, Jos. Léon (1886), Gobeille-Harris Pattern Co.

HARPER, John Lyell (1906), Ch. Engr., Niagara Falls Hydraulic Power & Mfg. Co.

WILSON, Hugh H. (1907), Supt., Ontario Power Co. of Niagara Falls, P. O. Box 4, and Niagara Falls, S. Ontario, Canada.

North Tonawanda

PARSONS, William N. (1901), Ch. Draftsman, Buffalo Bolt Co., and *for mail*, 216 Falconer St.

SPILLMAN, Edwd. Orton (Junior, 1898), Mech. Engr.

Nyack

AVERY, John S. (Junior, 1901), Genl. Mgr., Rockland Light & Power Co.

Ossining

WILDER, Stuart (Associate, 1904), V. P., and Genl. Mgr., Northern Westchester Ltg. Co., and Peekskill Ltg. & R. R. Co., and *for mail*, 14 Clinton Ave.

Oswego

BROCK, Walter I. (1902), Engr.

GRAY, Niel, Jr. (1903), Proprietor, Oswego Mch. Wks., and 132 W. 5th St.

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Painted Post

WICKERSHAM, Nathan R. (1907), Supt., Ingersoll-Rand Co., and Corning.

Port Chester, Westchester Co.

BOERNER, Emile C. (1895), Cons. Mech. Engr., Russell, Burdsall & Ward Bolt & Nut Co., and *for mail*, 214 Locust Ave.

BURDSALL, Ellwood (Junior, 1880), Secy. and Designing Engr., Russell, Burdsall & Ward Bolt & Nut Co.

FINLEY, A. D. (1898; Associate, 1903), Assoc. Engr., Russell, Burdsall & Ward Bolt & Nut Co., and *for mail*, 206 Leicester St., Fairmont Park.

RUPF, Ernest Louis (Junior, 1907), Cons. Engr., Russell, Burdsall & Ward Bolt & Nut Co., and *for mail*, 227 William St.

Port Washington, L. I.

CONNETT, Lyndon Rutan (Junior, 1898), Pres., Crescent Sand & Gravel Co.

Potsdam

ALDRICH, William Sleeper (1892), Life Member; Director, Thomas S. Clarkson Memorial Sch. Tech., and *for mail*, 51 Main St.

TOWLE, William Mason (1887), Life Member; Supt. of Shops, Clarkson Memorial Sch. Tech., and *for mail*, 27 Main St.

Poughkeepsie

HART, Frederick (1905), Cons. Mech. Engr., Lansing Ave.

MILLER, Theodore Harry (1906), Supt., The De Laval Separator Wks., and *for mail*, 40 S. Clinton St.

Riverhead, L. I.

EDWARDS, J. Irving (Junior, 1897).

Rochester

ALEXANDER, Chas. A. (1899; 1905), Engr. and Contr., Builders' Exchange, and 3 Cornell St.

ANCONA, John F. (Junior, 1904), Ch. Draftsman, Eastman Kodak Co., Kodak Park Wks., and *for mail*, 2 Magee Ave.

COCHRANE, Robert B. (1903), Cons. Mech. Engr., 414 German Ins. Bldg., and 26 Tracy St.

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Rochester (Continued)

COOK, E. J. (1891), V. P. and Genl. Mgr., N. Y. State Rys., 267 State St., and Wellsley Apts., 8 Wellsley St.

CROCKER, Allen Swift (1905), Supt. Industrial Arts Dept., Mechanics Inst., and Cons. Engr., 55 Plymouth Ave., and 15 Audubon St.

DUERNER, Henry L., Jr. (1901), Mech. Engr., 78 Tacoma St.

GLEASON, William (1897), Pres., The Gleason Wks., and 47 Prince St.

HAWKINS, Edgar Marvin (Junior, 1901), Genl. Mgr., M. D. Knowlton Co., Inc., 29 Elizabeth St., and 100 Park Ave.

HOGLE, Milton W. (1901; Associate, 1906), 128 Linden St.

JONES, Albert I. (1892), Supt., The Pfaudler Co., 217 Cutler Bldg., and *for mail*, 107 Chili Ave.

KNOWLTON, Frederic Kirk (Junior, 1904), V. P. and Secy., M. D. Knowlton Co., 29 to 35 Elizabeth St., and *for mail*, 101 S. Fitzhugh St.

LOVEJOY, Frank Wm. (Junior, 1901), Genl. Mgr., Mfg. Depts., Eastman Kodak Co., and Seneca Parkway.

NOYES, Henry Taylor, Jr. (Associate, 1904), Treas., German-American Button Co.

PALMER, Virgil Maro (Junior, 1905), Selden Motor Vehicle Co.

PARKER, John Castlereagh (Associate, 1905), Mech. and Elec. Engr., Rochester Ry. & Light Co.

PECK, Henry W. (Associate, 1908), Asst. Elec. Engr., Rochester Ry. & Light Co., 34 Clinton Ave., and 4 Audubon St.

SVENSSON, John Alfred (1909), Ingle Mach. Co.

SYMINGTON, E. Harrison (Associate, 1903), T. H. Symington Co.

WILCOX, Perley Smith (Junior, 1899), Asst. Mgr., Kodak Park Wks., Eastman Kodak Co., and *for mail*, 10 Audubon St.

Sacketts Harbor

RANKIN, Thos. L. (1892).

Sandy Hill

MOODY, Herbert A. (1901; Associate, 1905), Industrial Engr.

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Schenectady

BATCHELDER, Asa Fred (1903), Designing Engr., Ry. Engr. Dept., Genl. Elec. Co., and 1375 Union St.

BURCHARD, Anson W. (1888; 1891), 21 Front St.

CAPP, John Allen (1901), Chief of Test Lab., Genl. Elec. Co., and *for mail*, 1514 Union St.

CHATAIN, Henri George (Associate, 1903), Engr., Gas Engs., Genl. Elec. Co., and *for mail*, Troy Rd.

CLARK, John Henry (1906), Cons. Engr., Genl. Elec. Co.

CLARKE, Philip L. (Junior, 1907), Testing Dept., Genl. Elec. Co., and *for mail*, 244 Union St.

COLE, Francis J. (1888), Cons. Engr., Am. Loco. Co., and 3 Avon Rd.

COREY, Fred Brainard (1894; 1900), Engr. of Ry. Signals, Genl. Elec. Co., and 1 Glenwood Blvd.

DALTON, William (1902), Ch. Engr., Amer. Loco. Co., and 41 Wendell Ave.

DODGE, Austin R. (1907), Engr., Experimental Steam Turbine Dept., Genl. Elec. Co.

ELY, Wm. Grosvenor (1893; 1901), Supt. Constr., Genl. Elec. Co., and *for mail*, Lenox Road.

EMMET, W. L. R. (1902), Engr., Ltg. Dept., Genl. Elec. Co.

HASKINS, Caryl D. (1905), Mgr. Ltg. Dept., Genl. Elec. Co., and 32 Washington Ave.

HEWLETT, Edward M. (1897; 1900), Engr. Switchboard Dept., Genl. Elec. Co. and Balston Road, R. F. D.

HILL, Charles Hubbard (Associate, 1907), Designing Engr., Genl. Elec. Co., and *for mail*, 305 Lenox Rd.

INGERSOLL, Geo. T. (1903), Supt., Water Wks., 447 Franklin St., and 419 Union St.

KRUESI, August H. (1901; Associate, 1904), Designing Engr. in charge Constr. Engrg., Genl. Elec. Co.

LANDRETH, Olin H. (1883), V. P., 1885-1886; Prof. Engrg., Union College, and Cons. Engr.

LANE, Arthur M. (1903), Asst. Engr., Genl. Drawing Room, Am. Loco. Co., and *for mail*, 32 Union Ave.

LEEPER, Ralph W. (Junior, 1908), 304 Clinton St.

MANN, A. S. (1900), Mech. Engr., Genl. Elec. Co.

MAYSILLES, John Henry (Junior, 1901), Genl. Foreman, Elec. Loco. and Truck Dept., Amer. Loco. Co., and *for mail*, 108 Elmer Ave.

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Schenectady (Continued)

MELLIN, Carl J. (1890), Cons. Engr., Am. Loco. Co., and *for mail*, 1005 Union St.

MOORE, Allen H. (1902), Genl. Elec. Co., and *for mail*, 352 Western Ave., Albany.

MORTENSEN, Caspar (Junior, 1899), Designer, Mch. Tool Dept., Genl. Elec. Co., and *for mail*, 220 Broadway.

POTTER, Wm. Bancroft (1897), Engr., Ry. and Traction Dept., Genl. Elec. Co., and Lenox Rd.

PRATT, Francis C. (1892; 1897), care Genl. Elec. Co.

REID, Wm. L. (1903), Mgr., Am. Loco. Co., and 842 Union St.

REIST, H. G. (1889; 1893), Mech. and Elec. Engr., Genl. Elec. Co., and *for mail*, 110 Avon Rd.

RIDDELL, John (1895), Mech. Supt., Genl. Elec. Co., Schenectady Wks., and *for mail*, 1138 Duane Ave.

ROHRER, Albert L. (1896), Elec. Supt., Genl. Elec. Co., and *for mail*, Lenox Rd.

RUSHMORE, David B. (1897; 1903), Engr., Power and Mining Dept., Genl. Elec. Co.

SCHENCK, Leon H. (Junior, 1903), 1379 Union St.

SCUDDER, Hewlett, Jr. (Junior, 1899), Pat. Dept., Genl. Elec. Co.

SHIRRELL, David (1890), Amer. Loco. Co., and *for mail*, 848 Park St., Hartford, Conn.

SLICHTER, Walter I. (Junior, 1902), Elec. Engr., Genl. Elec. Co., and *for mail*, 7 Glenwood Blvd.

SPALDING, Chester M. (1894), Genl. Elec. Co., and *for mail*, 6 Catherine St.

STEINMETZ, Charles P. (1907), Cons. Engr., Genl. Elec. Co., and Prof. Elec. Engrg., Union Univ., and *for mail*, Wendell Ave.

STONE, Charles Waterman (1907), Asst. Engr., Lighting Dept., Genl. Elec. Co.

TORRANCE, Kenneth (1885; 1893), Mech. Engr., Genl. Elec. Co., and 22 Washington Ave.

UPP, John W. (1903), Mgr. Switchboard Dept., Genl. Elec. Co., and *for mail*, 40 Wendell Ave.

WILKINSON, Cecil Tom (Junior, 1908), Elec. Engr., Genl. Elec. Co., and State St.

WILLIAMS, Ernest D. (Junior, 1905), Turbine Eng. Dept., Genl. Elec. Co., and *for mail*, 1306 Union St.

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Seneca Falls

GOULD, Norman J. (1900; 1908), Pres. Goulds Mfg. Co., and 69 Cayuga St.

POMEROY, William D. (1908), Genl. Supt., Goulds Mfg. Co., and *for mail*, 4 Johnston St.

Skaneateles

GRAY, William Emery (1907), Secy., Skaneateles Paper Co.

Solvay

POWER, Frederick Macy (1892), Orchard Road.

Syracuse

BAILEY, Frederic W. (Junior, 1901), Draftsman, care Solvay Process Co.

BARNES, E. Austin (1905; 1907), Engr. of Tests, Semet-Solvay Co.

BARR, John H. (1889), Mgr., Smith-Premier Wks., and 813 James St.

BATES, Edward P. (1891), Life Member; Prin., 228 W. Water St.

BEECHER, J. F. (Associate, 1908), Draftsman, Solvay Process Co., and *for mail*, 110 Midland Ave.

BLAUVELT, Wm. Hutton (1900), Cons. Engr., Semet-Solvay Co., and *for mail*, 1917 W. Genesee St.

BRIGGS, Arthur J. (1907), Engrg. Mgr., Smith-Premier T. W. Co., and 107 Victoria Pl.

BROWN, Alex. T. (1890), Life Member; Pres., Smith-Premier T. W. Co., Brown-Lipe Gear Co., and *for mail*, 608 W. Onondaga St.

BUMP, Burton Nelson (1892; 1904), Engr. of Tests, Solvay Process Co.

CHAMBERS, F. G. (1902), Supt., Straight Line Eng. Co., and *for mail*, 111 Davis St.

COGSWELL, Wm. B. (1880), Manager, 1880-1882; V. P. and Managing Director, Solvay Process Co.

COMLY, G. Norwood (1905; 1907), Draftsman, Solvay Process Co.

COMLY, Geo. N. (1880), 1816 W. Genesee St.

COOPER, Henry R. (1890; 1895), Mgr., Caustic Soda Dept., Solvay Process Co., and *for mail*, 1921 W. Genesee St.

COTTON, Geo. G. (1902), Supt. Constr., Solvay Process Co., and *for mail*, Fairmount P. O., Camillus, R. F. D. No. 1.

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Syracuse (Continued)

CRAIG, Howard Benton (Junior, 1899), Solvay Process Co.

DIEFENDORF, Willis H. (1904), Ch. Engr., New Process Raw Hide Co., and *for mail*, 115 Baker Ave.

DUNKLE, H. Edw. (Associate, 1907), Draftsman, Semet-Solvay Co., and *for mail*, Solvay Club House.

FAULKS, James B., Jr. (Junior, 1902), Asso. Prof. College of Engrg., Syracuse Univ., and *for mail*, 303 University Pl.

FLANNERY, John M. (1907), Solvay Process Co., and *for mail*, 1628 W. Genesee St.

FRYER, Geo. G. (1891), Estimating Engr., Solvay Process Co., and *for mail*, 203 Onondaga Ave.

GILLIS, Albert R. (1891), Asst. Eng. Dept., Solvay Process Co., and 307 Emerson Ave.

GLENN, Chas. Sewell (Junior, 1905), Supt. Maintenance, Solvay Process Co., and Solvay Club House.

GORDON, Rea M. (1902; Associate, 1908), Asst. Engr. of Tests, Solvay Process Co., and *for mail*, 303½ Delaware St.

GRIFFIN, Charles Lewis (1893), 2d Asst. Engr., Solvay Process Co., and *for mail*, 207 Summit Ave.

GUELBAUM, David (1894; 1905), M. E., P. O. Box 293.

HERBERT, Charles G. (1900), Solvay Process Co.

HOLMES, Arthur (Junior, 1904), Asst. Engr., H. H. Franklin Mfg. Co., and *for mail*, 210 Fitch St.

HOPTON, W. E. (1891; 1896), Purchasing Dept., Solvay Process Co., and *for mail*, 311 Summit Ave.

KLOCK, Frank Barnes (Associate, 1907), Solvay Process Co., and *for mail*, 216 N. Lowell Ave.

KNEIP, Walter Francis (Junior, 1904), Engrg. Dept., H. H. Franklin Mfg. Co., and *for mail*, 107½ Onondaga Ave.

LOTHROP, Marcus T. (Junior, 1908), Halcomb Steel Co.

McFARLAND, A. R. (1902), Wks. Mgr., Solvay Process Co., and 609 Willis Ave.

MacCORQUODALE, Peter H. (1906), Asst. Supt., Church & Dwight Co., 1416 Willis Ave., and *for mail*, 218 Coleridge Ave.

MALLORY, Charles K. (1907), Engr. of Constr., Solvay Process Co., 619 Walnut Ave.

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Syracuse (Continued)

MILLER, Thomas Harrison (Junior, 1905), Draftsman with Semet-Solvay Co., and *for mail*, Solvay Club House.

NINDE, William Edward (1899; 1903), Instr., Heat Eng. Design, Syracuse Univ., and *for mail*, 202 Maryland Ave.

PIERCE, Edward L. (1898), V. P., Semet-Solvay Co., V. P., By-Products Coke Corp., Box 1 and 2.

PILLMORE, Frederick (1907), Mech. Engr., 257 Bryant Ave.

RUTHERFORD, Gordon S. (1901; 1907), Soda Ash Dept., Solvay Process Co., and 108 Cayuga St.

SERRELL, Wm. C. (Junior, 1899), Lock Box 680, and *for mail*, P. O. Box 237, Thousand Island Park.

SHEPARD, Geo. H. (1903), Prof. Exper. Engrg. and Mch. Design, College of Applied Science, Syracuse Univ., and *for mail*, 1206 Harrison St.

SINGER, Sidney Chas. (Junior, 1909), Asst. to Engr. of Distribution, Syracuse Ltg. Co.

STEARNS, Albert (1880), Supt., Church & Dwight Co., 1416 Willis Ave., and 329 James St., and *for mail*, P. O. Box 74.

SWEET, John E. (1880; Honorary, 1904), Manager, 1880-1883; Pres., 1883-1884; Pres., Straight Line Engine Co., and 114 Merriman Ave.

THOMPSON, Byron Lyman (Associate, 1908), Asst. Mgr., Bi-Carbonate Dept., Solvay Process Co., and *for mail*, 212 Erie St.

TOMLINSON, Charles E. (Associate, 1908), Smith-Premier T. W. Co.

TRACY, Lyndon Sanford (Junior, 1900), Mgr., Soda Ash Dept., Solvay Process Co., and Brattle Rd.

TRUMP, Edward N. (1880; 1890), V. P., 1905-1907; Genl. Mgr. and Ch. Engr., Solvay Process Co., and V. P., Semet-Solvay Co., and *for mail*, 1912 W. Genesee St.

WILKINSON, John (1907), Ch. Engr., H. H. Franklin Mfg. Co., and *for mail*, 211 Robinson St.

ZOHE, Ludwig A. (1903; 1904), Solvay Process Co., and *for mail*, 113 Cayuga St.

Tannersville

GODFREY, Eli S. (1891).

Tarrytown

DAVENPORT, E. W. (1902), Maxwell-Briscoe Motor Co.

PARSONS, Frederick W. (1889), Supt., Rand Drill Co., and Brookside Park.

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Tompkinsville, Staten Island

PENTZ, Albert D. (1891), 31 Central Ave.

Troy

BRADLEY, Wm. Joseph (1905), Supt., Rail Joint Co., and 1 Belle Ave.

CLUETT, Albert Edmund (1900; 1903), Mech. Engr., Cluett, Peabody & Co., and *for mail*, P. O. Box 666.

DAVIS, Chester B. (1890), 3353 6th Ave.

EHRMANN, John P. (Junior, 1903), Hanna Mfg. Co., Fulton & Front Sts., and Collins House, Watervliet.

FOSTER, C. H. (1886), Treas., Tolhurst Mch. Wks., and *for mail*, 2 Belle Ave.

GREENE, Arthur M., Jr. (1895; 1903), Prof. Mech. Engrg., Rensselaer Poly. Inst., and 20 Hawthorne Ave.

HAMMETT, Hiram G. (1888), Hammett Mch. Wks., 476-482 Eighth St.

PECKHAM, Wm. M. (Associate, 1894), Managing Partner, Manning & Peckham Paper Mills, and Collins Ave.

RICKETTS, Palmer Chamberlaine (1892), Pres. and Prof. Mech., Rensselaer Poly. Inst., and *for mail*, 30 Second St.

VAN DERVORT, Adrian O. (Junior, 1900), Supt., Hammett Machine Wks., and *for mail*, 90 Oakwood Ave.

Utica

BABCOCK, Stephen E. (1881), Mech. and Civil Engr., Room 55, Mann Bldg., and 131 Oneida St.

CAMP, Geo. E. (1893), Supt., Internatl. Heater Co., and 7 Noyes St.

FOSTER, William B. (1908), Supt. and Ch. Engr., Foster Bros. Mfg. Co., and 79 Oneida St.

KELLEMEN, H. F. (1902; 1903), Genl. Supt., Utica Drop Forge & Tool Co., 800 Whiteboro St., and *for mail*, 77 Churchill Ave.

MUNSON, Edmund G. (1908), Supt. and Secy., Munson Bros. Co.

WISEWELL, Francis Henry, Jr. (Junior, 1905), Internatl. Heater Co.

Warsaw

PETTENGILL, George D. (Junior, 1907), Ch. Draftsman, Warsaw Elevator Co., and *for mail*, Box 742.

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Waterford

KNICKERBACKER, John (1891), Pres., Eddy Valve Co., and *for mail*, 86 1st St., Troy.

Watertown

EATON, Charles Edwin (1905), Eaton & Brownell, Engrs. and Architects, 70 Smith Bldg., and 1157 State St.

KARR, Ernest M. (Junior, 1905), Bagley & Sewall Co., and *for mail*, Box 241.

KINNE, Clarence E. (1899), Life Member; Mech. Engr., Bagley & Sewall Co., and *for mail*, 116 S. Indiana Ave.

Wellsville

KERR, C. V. (1892), Ch. Engr., Kerr Turbine Co.

McEWEN, J. H. (1882), Pres. and Genl. Mgr., McEwen Bros.

West New Brighton

LEE, William Floyd (1907), Prelim. Engr., C. W. Hunt Co.

WATERS, George H. (1901), Pres., Waters, Gildersleeve, Colver Co., and 345 Bement Ave.

Yonkers

DAVIS, Joseph P. (1880), 332 Palisade Ave.

FREEMAN, J. Porter (1908), Constr. Engr., Alex. Smith & Sons, and *for mail*, 225 Woodworth Ave.

MIDGLEY, Frederick W. (Junior, 1904), Ch. Draftsman, Otis Elevator Co., and *for mail*, 23 Florence St.

MORSE, William A. (1903), Engr. in charge of Wks., Mech. Engrg. Dept., Otis Elevator Co., and *for mail*, 21 Union Place.

ODELL, W. H. (1880), Mech. Engr., Specialty, "The Economic Generation and Application of Steam," 58 Carolina Ave.

SMITH, Allen C. (1902), Ch. Mech. Designer, Otis Elevator Co., and *for mail*, 697 West End Ave., New York.

STONE, Mason A., Jr. (Junior, 1907), Otis Elevator Co., and *for mail*, 141 Warburton Ave.

NORTH CAROLINA

Biltmore

WADDELL, Chas. Edward (1903; 1907), Cons. Engr., Biltmore Estate.

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Charlotte

LEE, William States (1907), Ch. Engr., Southern Power Co., Trust Bldg.

MEES, Curtis A. (Associate, 1908), Designing Engr., Southern Power Co.

THOMPSON, Erwin W. (1884), Dist. Mgr., Southern Cotton Oil Co.

TUCKER, Frank Stevenson (1905), Pres., Tucker & Laxton, 906 Realty Bldg.

WHITTED, Thomas B. (1900; 1903; 1909), Pres., Thomas B. Whitted & Co., 1000-1006 Realty Bldg., and 317 W. 5th St.

Goldsboro

BORDEN, Wm. H. (Junior, 1905).

Pittsboro

PEEK, George Meredith (1892; 1900).

Raleigh

ANDREWS, Wm. Johnston (Junior, 1898), Mech. Engr., P. O. Box 231, and 105 E. North St.

Salisbury

HENDERSON, Richard (1906), Capt. U. S. N., Ret., P. O. Box 239.

West Raleigh

ELLIS, Weldon T. (Junior, 1908), Asst. in Mech. Engrg. Dept., N. C. College of Agriculture and Mech. Arts.

SATTERFIELD, Howard E. (Associate, 1908), Prof. Mech. Engrg., N. C. College of Agriculture and Mech. Arts.

NORTH DAKOTA

Grand Forks

CROUCH, Calvin Henry (1898; 1908), Dean, College Mech. and Elec. Engrg., Univ. of North Dakota.

OHIO

Akron

ADAMS, Edward M. (1902), Ch. Engr., Quaker Oats Co., and *for mail*, 83 Charlotte St.

ADAMSON, Cecil F. (Junior, 1906), Cons. Mech. and Elec. Engr., Hamilton Bldg.

LATTIN, Judson (1891), Supt., Internatl. Harvester Co., and *for mail*, 716 E. Market St.

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Akron (Continued)

LOMBARD, Nathaniel (1907), Supt. and Chief Engr., Lombard-Replogle Engrg. Co.

REPLOGLE, Mark A. (1898), Sec., Lombard-Replogle Engrg. Co., Hower Bldg., and *for mail*, 65 Aqueduct St.

ROE, Mark W. (1900; 1909), Mech. Engr., Diamond Rubber Co., and *for mail*, 627 Crosby St.

SHAW, Edwin C. (1890; 1892), Genl. Mgr. of Wks., The B. F. Goodrich Co., and *for mail*, 120 S. Union St.

STURGESS, John (1901), Genl. Mgr., Lombard-Replogle Engrg. Co., and *for mail*, 9 Arch St.

Alliance

TAYLOR, Clarence L. (1904), Ch. Engr., Morgan Engrg. Co., and *for mail*, 653 S. Union Ave.

Barberton

CHANDLER, Sellers McKee (Junior, 1905), Pittsburg Valve & Fittings Co.

HARTER, Isaac, Jr. (Associate, 1908), Supt., Babcock & Wilcox Co.

PAPE, James Otto (Junior, 1908), Pittsburg Valve & Fittings Co.

SLEE, Norman S. (Junior, 1909), Engr. and Draftsman, Babcock & Wilcox Co., and 410 W. Park Ave.

Canton

HARRIS, Wm. Allison (1904), Mgr. Amer. Sheet & Tin Plate Co., Roll & Mch. Wks., and 1338 N. Cleveland Ave.

MILLER, Elmer E. (Junior, 1899), Pres., Canton Engrg. & Elec. Co., Masonic Bldg., and 2002 Market St.

Cincinnati

AHRENS, Geo. Fred (1897), Pres., Ahrens Fire Eng. Co., Alfred and Cook Sts., and *for mail*, 359 Thrall Ave.

AULL, Jerome J. (Junior, 1906), Mech. Engr., The Lunkenheimer Co.

BALDWIN, Bert. L. (1890), Mech. Engr., Rooms 72-75 Perin Bldg., and *for mail*, 2529 Bell Pl.

BENNETT, Joseph Albert (1907), Mech. Engr., Lodge & Shipley Mch. Tool Co., and Hartford, Conn.

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Cincinnati (Continued)

BLAIR, Archibald W. (Junior, 1898), Ch. Draftsman. Amer. Laundry Mchy. Mfg. Co., Station H, and *for mail*, 2218 Ohio Ave.

CLARK, Frank S. (Associate, 1909), Engr., Cincinnati Traction Co.

DE LEEUW, Adolph L. (1901), Mech. Engr., Cincinnati Milling Mch. Co., and *for mail*, 425 Terrace Ave., Hamilton.

DOANE, Wm. H. (1885), Dr., 601 Fourth Natl. Bank Bldg., and 2223 Auburn Ave.

DU BRUL, Ernest F. (Associate, 1900), V. P., Miller, Du Brul & Peters Mfg. Co., 507-519 E. Pearl St., and Cor. Beecher and Melrose Aves.

DU BRUL, Napoleon (1900), Pres., The Miller, Du Brul & Peters Mfg. Co., 507-519 E. Pearl St., and Colerain Ave., Station A.

EAYRS, Thomas C. (Junior, 1905), Westinghouse Elec. & Mfg. Co., 1104 Traction Bldg.

EGAN, Thomas P. (1903), Pres., J. A. Fay & Egan, John and Front Sts., and *for mail*, Edge Cliff Point (Rd.).

ELLIOTT, Thomas (1904), Ch. Engr., 1312 Traction Bldg., and 354 Shiloh St.

FAIG, John T. (1897; 1905), Prof. Mech. Engrg., Univ. of Cincinnati, and 254 Greendale Ave.

FOX, Charles H. (1900), V. P., Ahrens Fire Engine Co., Alfred and Cook Sts., and *for mail*, 3547 Shaw Ave.

FRANZ, Walter G. (1907), Cons. Engr., Union Trust Bldg., and 2613 Eden Ave.

FRECHTLING, Arthur Geo. (Junior, 1906), Fairbanks Morse & Co., and *for mail*, 319 N. 2d St., Hamilton.

GALBRAITH, Geo. W. (Associate, 1899), Sales Mgr., Internatl. Steam Pump Co., 211 W. 4th St., and 453 Riddle Rd., also Box 639.

cinnati Milling Mch. Co., Sta. B, and 2301 Grandview Ave.

GINGRICH, Charles Sumner (Junior, 1900), Cincinnati Milling Mch. Co., 2533 Cook St., and *for mail*, Flat No. 1, The Maplewood, Clifton.

GEIER, Frederick August (Associate, 1900), Pres., Cin-

GREENMAN, Edwin G. (Junior, 1907), Ch. Draftsman, The Lunkenheimer Co., and *for mail*, 1764 Fairmount Ave.

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Cincinnati (Continued)

GROENE, William F. (1908), Ch. Draftsman and Designer, R. K. LeBlond Mch. Co., 4609-4621 Eastern Ave., and 1311 Delta Ave.

HOBART, James C. (1888; 1893), Secy. and Mgr., Triumph Elec. Co., and 2820 Winslow Ave.

HORNUNG, Geo. (1886), Cons. Engr., Johnston Bldg., and 512 Fairfield Ave., Bellevue, Ky.

JENKINS, Alexander Lewis (Junior, 1907), Asst. Prof. Mech. Engrg., Univ. of Cincinnati, and 2348 Ohio Ave.

LANE, Harry M. (1886), Pres., Lane & Bodley Co., Bond Hill.

LANGEN, George (1906), Cincinnati Planer Co., and 1680 Pullan Ave.

LEBLOND, John A. (1907), Supt., R. K. LeBlond Mch. Tool Co., and 4609 Eastern Ave.

LE BLOND, R. K. (1900), Mfr., 3668 Archer St., Station C.

LEMON, John C. (1902), Mech. Engr., Grand Opera House Bldg., and *for mail*, 1329 Grace Ave., Mt. Lookout.

LODGE, Wm. (1890), Pres., Lodge & Shipley M. T. Co., 3055 Colerain Ave.

MARX, August (Junior, 1907), Salesman, G. A. Gray Co., Depot and Gest Sts.

MARX, Henry (1880; 1892), Pres., G. A. Gray Co., Gest and Depot Sts., and 684 S. Crescent Ave., Avondale, Cincinnati.

MORRISON, James (Junior, 1904), Supt., Cinn. Time Recorder Co., 1725 Central Ave., and *for mail*, Ludlow Ave., Clifton, Cincinnati.

MORRISON, William (Junior, 1900), 315 Fourth Natl. Bank Bldg., and *for mail*, Ludlow Ave., Clifton, Cincinnati.

MOYER, Samuel Lyon (Junior, 1899), V. P., The Lunkenheimer Company, P. O. Box 876, and 803 Race St.

MULLER, Edward A. (1890), Secy. and Genl. Mgr., King Mch. Tool Co., Winton Pl., and *for mail*, 5500 Main St., Madisonville.

NORRIS, Henry McCoy (1892; 1898), Supt., Engr. and Wks. Mgr., Bickford Drill & Tool Co., Front and Pike Sts.

RICHTER, Ernst (1890), Ch. Draftsman, G. A. Gray Co., and *for mail*, 386 Terrace Ave.

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Cincinnati (Continued)

RITTER, Henry (1900), Supt., The Lunkenheimer Co., and 4208 Glenny Ave., Price Hill.

SCHLEMMER, Edmund (Junior, 1904), Supt., Htg., Ventilation and Power Wk., Oliver Schlemmer Co., 1050-1062 Hulbert Ave., and 1811 Linn St.

SEAWELL, Bert W. (Associate, 1907), Ch. Draftsman, Cincinnati Traction Co., 1312 Traction Bldg., and 273 McCormick Pl.

SMITH, Roy Brooke (Junior, 1905), Foreman, M. P. and Equip., C. L. & N. Ry., 1818 Williams Ave., Norwood.

SPRINGER, John J. (Junior, 1903), Sales Engr., Crane Hawley Co., Court and Sycamore Sts., and *for mail*, 4815 Marion St., E. Norwood.

STANWOOD, J. B. (1889), Manager, 1897-1900; Engr. and V. P., The Houston, Stanwood & Gamble Co., and *for mail*, 623 Oak St.

SWANBERG, F. L. (Junior, 1902), Secy., D. T. Williams Valve Co., and 24 Calvin St.

VAN WINKLE, Herbert H. (Junior, 1906), Mech. Engr., John H. McGowan Co., 54 Central Ave.

Cleveland

ALLEN, Albert Mark (1903; 1908), Cons. Engr., 1130 Schofield Bldg., and 1319 E. 82d St., N. E.

ANDERSON, Harold Bentley (Junior, 1903), Ch. Engr., Winton Motor Carriage Co., and *for mail*, 1289 Belle Ave., Lakewood.

ARNOLD, George (1904), 1763 E. 63d St.

BALKWILL, Stephen, Jr. (1903), Mech Engr., Cleveland Frog & Crossing Co., and *for mail*, 1808 E. 82d St.

BALLARD, Frederick W. (1907), Mgr., Engrg. and Constr. Dept., Sherwin-Williams Co., and *for mail*, 601 Canal Rd., N. W., also 49 Cadwell Ave., Mayfield Heights.

BARTOL, Geo. (1886), Genl. Mgr., Otis Steel Co., (Ltd.).

BATES, Albert H. (Junior, 1890), Pat. Lawyer, 1028 Soc. for Savings Bldg., and 307 Harkness Ave.

BAXTER, Burke Morgan (Junior, 1908), 6823 Aetna Rd., S. E.

BIDLE, William Sanford (1904), Mgr., Turnbuckle Dept., Cleveland City Forge & Iron Co., and *for mail*, 1809 E. 93d St.

BLACK, Edward S. (1903), 35 Wade Bldg.

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Cleveland (Continued)

BROWN, Alexander E. (1883), V. P. and Genl. Mgr., Brown Hoisting Mch. Co., St. Clair Ave., and *for mail*, 2626 Euclid Ave.

BROWNING, Victor Reed (1908), V. P., Browning Engrg. Co.

BRUSH, Charles F. (1880), Life Member; Elec. Engr., 481 The Arcade, and 3725 Euclid Ave.

CARPENTER, Alfonso H. (Associate, 1895), V. P., Acme Machinery Co., 4533 St. Clair Ave., and *for mail*, 11414 Mayfield Road, S. E.

CHACE, William W. (1908), Mech. Engr., Cleveland Twist Drill Co., and *for mail*, 40 Elberon Ave., East Cleveland.

CHENEY, W. L. (1883), Sales Mgr., Lucas Mch. Tool Co.

CLARAGE, Edson Doud (Junior, 1900), Mgr., Columbia Tool Steel Co., 1289 W. 6th St., and 1650 Holyrood Rd., N. E.

CLEGG, Robert I. (1902), Editor, Wood Craft and Castings, V. P., Gardner Printing Co., Caxton Bldg., and 2105 E. 81st Pl.

COLEMAN, Frederick A. (1907), Pres., J. D. Smith Fdy. Supply Co., 1846 Scranton Rd., and 2026 E. 65th St.

COMSTOCK, Charles Warren (Associate, 1906), Cons. Engr., Caxton Bldg., and 1960 E. 97th St.

COWLES, William Barnum (1881), V. P. and Treas., "Long Arm" System Co., 1317 Schofield Bldg., and 11312 Euclid Ave.

COX, Jacob Dolson (1881), 916 Williamson Bldg.

CRANE, Edward S. (Associate, 1901), 3203 W. 14th St.

CROMWELL, J. C. (1892; 1900), 1404 New England Bldg., and 1781 E. 89th St.

DAVIS, Thomas B. (Associate, 1907), Ch. Engr., Cleveland Crane & Engrg. Co., Wickliffe, and *for mail*, 65 Stanwood Road, East Cleveland.

DUNBAR, James Horace (1907), Mech. Engr., Grasselli Chem. Co.

FERNALD, Robt. H. (1900; 1903), Prof. Mech. Engrg., Case Sch. of Applied Science, Engr. in charge, U. S. Geolog. Survey, and 1563 E. Blvd.

FOOTE, Andrew W. (1900), Pres., The Foote Burt Co., 4100-4109 St. Clair St., and Gates Mills, Cuyahoga Co.

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Cleveland (Continued)

FOX, John Herbert (1904), Cons. Engr., Frazier & Fox, Rockefeller Bldg., and 6104 Hough Ave., N. E.

GAEHR, David (Associate, 1902), Contr. Engr., Schofield Bldg., and 2626 E. 75th St.

GRIESS, Justin Jr. (Associate, 1898; 1902), Treas. and Sales Mgr., Interstate Engrg Co., and *for mail*, 2060 E. 82d St.

HALE, Herbert Carlton (1904), Contr. and Designing Engr., 1036-38 Schofield Bldg.

HAND, S. Ashton (1882), Supt., The Chandler & Price Co., 6000 Carnegie Ave., and 2084 E. 46th St.

HERMAN, Ludwig (1885), Cons. Engr. and Expt., 7406 Cedar Ave.

HILL, Harold H. (Associate, 1904), Mech. Engr., Dist. Mgr., Erie City Iron Wks., 807 New England Bldg., and 11317 Belleflower Road, N. E., also Hilltop Farm, Wickliffe, Lake County.

HINCHMAN, C. R. (1893), Engr., Am. Steel & Wire Co., and 2060 E. 90th St.

HONSBERG, August A. (1901), M. E., Asst. County Engr., Old Court House, Map Dept., and *for mail*, 5 Euclid Windsor Pl.

HULETT, Frank E. (1906), Engr., Wellman-Seaver-Morgan Co., and *for mail*, 6 Rosalind Ave., East Cleveland.

HULETT, Geo. Henry (1903), 3d V. P., Wellman-Seaver-Morgan Co., and 710 E. Prospect St.

JETT, Carter C. (Junior, 1902), 1993 E. 59th St.

JONES, Edward H. (1889), and *for mail*, Clearwater, Fla.

LARNER, Chester W. (Associate, 1907), Hydraulic Engr., Wellman-Seaver-Morgan Co., and *for mail*, Euclid Villa, Euclid Ave.

LANE, Henry Marquette (1900), Editor, Castings and Woodcraft, Caxton Bldg., and *for mail*, 15 The Melrose, 1924 Prospect Ave.

LEES, Ernest J. (1907), V. P., Grant-Lees Mch. Co., and *for mail*, 10829 Superior Ave.

LEIGHTON, Edward I. (1892), Cleveland Mch. & Mfg. Co., 1198 Hamilton St., and St. Augustine, Fla.

LITTLE, Chas. Henry (Associate, 1904), Mgr., Universal Drafting Mch. Co., and *for mail*, 29 Rosalind Ave., East Cleveland.

LUCAS, Henry M. (1904), Lucas Mch. Tool Co., E. 99th St. and L. S. & M. S. R. R., and *for mail*, 794 E. 99th St.

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Cleveland (Continued)

McGEORGE, John (1891), Cons. Engr., 7705 Linwood Ave.

McKEE, Arthur Glenn (1907), Cons. and Contr. Engr., 1303 Rockefeller Bldg.

McMULLIN, Frank V. (1903), Supt., Cleveland City Forge & Iron Wks., and *for mail*, 10309 Westchester Ave.

McNAIRY, A. B. (1902), Mfr., Hickox Bldg., and 3333 Euclid Ave.

MALTBY, Geo. Beecher (1904), V. P. and Genl. Mgr., Ohio Metallic Packing Co., 721 St. Clair Ave., N. E., and *for mail*, 1931 E. 101st St., N. E.

MATTHEWS, John G. (1897; 1907), Instr. Mech. Drawing, Cleveland Tech. H. S., and *for mail*, 176 Woodland Ave., Oberlin.

MERRYWEATHER, Geo. Edmund (1903), Pres., Motch & Merryweather Mchy. Co., 707-715 Lakeside Ave., N. W.

MILLER, Walter (1886), Cons. Engr., 1424 Rockefeller Bldg., and 24 Rosemont Rd., East Cleveland.

MOELLER, Franklin (Junior, 1891), Engr., Power and Mining Dept., Wellman-Seaver-Morgan Co., and *for mail*, 7700 Sagamore St.

MORRISON, Hunter (Junior, 1903), Sales Mgr., Hill Clutch Co., W. 58th St., and 1884 E. 84th St.

MURRAY, George R. (1903), Pres., Maxwell Rolf Stone Co., 586 The Arcade, and *for mail*, cor. Superior and Lee Rds., Cleveland Hgts.

NESBIT, Edwin (1907), Zinc Engr., Grasselli Chem. Co.

PARISH, Wm. H. (Junior, 1905), Asst. Supt., Natl. Carbon Co., and *for mail*, 1317 W. 114th St.

PECK, Eugene C. (1909), Genl. Supt., Cleveland Twist Drill Co., and 1242 E. 49th St.

PITKIN, Stephen H. (1891), 1st V. P., Wellman-Seaver-Morgan Co., and *for mail*, 682 W. Market St., Akron.

PLANTINGA, Pierre (Junior, 1894), Pres., Gas Mchy. Co., Citizens Bldg., and 2251 E. 89th St.

POPE, Chas. Edwd. (1897), Mech. Engr., Natl. Malleable Castings Co.

PRATHER, H. B. (1893; 1895; 1898), Cons. Power, Htg. and Ventilating Engr., Rockefeller Bldg., and 2234 E. 80th St.

REED, William E. (1898), Warner & Swasey Co., and *for mail*, 2037 E. 77th St.

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Cleveland (Continued)

REID, Marcellus (1903), Mech. and Cons. Engr., 506 Caxton Bldg., and 1865 E. 86th St., N. E.

REILLY, William J. (1901), Mgr., Cleveland Office, Babcock & Wilcox Co., 706 New England Bldg., and 7705 La Grange Ave.

RIDER, Geo. Smith (1900), Cons. Engr., Geo. S. Rider & Co., Century Bldg., and *for mail*, 1808 E. 65th St.

ROBBINS, C. C. (Associate, 1904), Treas. and Genl. Mgr., Cleveland Crane & Engrg. Co., Wickliffe, and *for mail*, 53 Marloes St., Windermere.

ROBERTS, E. P. (1889), Pres., Roberts & Abbott Co., 1123 Schofield Bldg., and *for mail*, 2095 Cornell Ave.

RUSBATCH, Alfred (1901), Supt., Rod Mills, 1786 E. 89th St.

SAGUE, Samuel R. (Junior, 1908), Sales Engr., Power House Equip., Strong, Carlisle & Hammond Co., and *for mail*, 79 Belmore Rd., E.

SEAVER, John Wright (1892), Cons. Engr., Caxton Bldg., and *for mail*, Norfolk Rd., Euclid Heights.

SHERIDAN, Richard B. (1909), Ch. Sales Engr. and Mgr., Brown Hoisting Mchy. Co., and 1893 E. 82d St.

SMITH, Ernest L. (1901; 1908), Sales Mgr., Grant-Lees Mch. Co.

SMITH, Roy Harman (Junior, 1906), Supt., Natl. Screw & Tack Co.

STRATTON, H. F. (Junior, 1904), Sales Mgr., Elec. Controller & Mfg. Co., and *for mail*, 2089 E. 100th St.

STRATTON, James Hughes (1906), Engr. Constr., Wellman-Seaver-Morgan Co., and 2032 E. 96th St.

STROUD, Edwin G. (Junior, 1901), Mgr., Cleveland Engrg. Agency, Pres., The E. G. Stroud Co., Rose Bldg., and 1502 Orchard Grove Ave., Lakewood.

SWASEY, Ambrose (1880), V. P., 1900-1902; Pres., 1904; V. P. and Treas., Warner & Swasey Co., and *for mail*, 7808 Euclid Ave.

TIPLADY, John T. (1909), Supt of Mch. and Power Plant, Variety Iron & Steel Wks. Co.

WACHALOFSKY, Chas. J. (Junior, 1904), Mech. Engr., Osborn Engrg. Co., and *for mail*, Lake and Cove Aves., Lakewood.

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Cleveland (Continued)

WARNER, Worcester R. (1880), Manager, 1890-1893, Pres., 1896-1897; Pres., Warner & Swasey Co., and *for mail*, 7720 Euclid Ave.

WATSON, Herbert L. (Junior, 1907), Sales Engr., Allis-Chalmers Co., Schofield Bldg.

WELLMAN, Samuel T. (1881), Manager, 1885-1888; V. P., 1896-1898; Pres., 1900-1901; Life Member; 8803 Euclid Ave.

WEST, Thos. D. (1884), West Steel and Iron Casting Co., E. 70th St.

WHITLOCK, Elliott H. (1901), Asst. Factory Mgr., Natl. Carbon Co., and *for mail*, "Open Hearth," Lake Ave.

WIECHARDT, August J. (1892), Cons. Engr., Williamson Bldg., and *for mail*, 40 Warren Rd., Lakewood.

WINTER, Oscar (1906), 1360 W. 112th St.

YOUNG, E. R. (Junior, 1900), Draftsman, Garrett-Cromwell Engrg. Co., and *for mail*, 484 E. 105th St.

Collinwood

SMITH, Harry Ernest (1897), Chemist and Engr. of Tests, L. S. & M. S. Ry., and *for mail*, 80 Knowles St., E. Cleveland.

Columbus

ARMSTRONG, Walter Jonas (Junior, 1907), Draftsman, Jeffrey Mfg. Co., and *for mail*, 319 Buttles Ave.

BABBITT, Edward F. (1909), Engr. with F. L. Packard, Arch., and *for mail*, 406 S. Ohio Ave.

BONE, Wm. H. (1883), V. P. and Genl. Mgr., The Ironsides Co., and *for mail*, 85 N. Ohio Ave.

BUSH, Harold Montfort (1894; 1905), Cons. Engr., Broad-Oak Bldg., and 55 N. 9th St.

COLE, J. Wendell (1883), Dist. Mgr., William Sellers & Co.'s Grinders and Detroit Emery Wheel Co., P. O. Box 84, and *for mail*, Elmwood.

COLWELL, Augustus W. (1880), 1416 Michigan Ave.

CUNNINGHAM, Robert Henry, Jr. (Junior, 1907), Salesman, Cleveland Office, Ingersoll-Rand Co., and *for mail*, 1462 Worthington St.

DUNLAP, Thaddeus C. (1908), Pres., Columbus Pneumatic Tool Co., Box 523, and 946 Madison Ave.

FITZ, Ervin M. (Junior, 1901), Elec. Engr., M. P., Dept. Pa. Lines, W. of Pittsburg, New First Natl. Bank Bldg., and 625 Franklin Ave.

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Cleveland (Continued)

GAMPER, Herman (1900), Supt., Munic. Ltg. Dept., and *for mail*, 437 Vermont Pl.

HADDOCK, Edwin Jos. (1906), Mech. Engr., Schultz Bldg.

HITCHCOCK, Embury A. (1898), Prof. Exper. Engrg., Ohio State Univ., and 380 W. 8th Ave.

JACKSON, Walter W. (1902), Engr. Water Supply, City Hall, and 284 S. Champion Ave.

JUDD, Horace (Associate, 1904), Asst. Prof. Exper. Engrg., Ohio State Univ., and *for mail*, 381 E. 13th Ave.

LAWRENCE, Gerald P. (Junior, 1909), Ohio State Univ., and *for mail*, 449 W. 7th Ave.

MAGRUDER, Wm. T. (1884), Prof. Mech. Engrg., Ohio State Univ., and 342 W. Ninth Ave.

RENNER, Roland B. (Junior, 1906), Jeffrey Mfg. Co., and 226 Buttles Ave.

RIGDON, Carl (Junior, 1907), Asst. Prof. of Expl. Engrg., Ohio State Univ., and *for mail*, 1379 Highland St.

ROBINSON, Stillman W. (1880), Manager, 1881-1884; Prof. Emeritus, in Mech. Engrg., Ohio State Univ., also Pres., S. W. Robinson & Son Co., 515 W. 1st Ave., and *for mail*, 1353 Highland St.

SANBORN, Frank Edwin (1904), Prof. Industrial Arts, Ohio State Univ., and 90 E. 14th Ave.

SMITH, Persifor Frazer, Jr. (1904), M. M., Pa. R. R. Shops.

WYER, Samuel S. (Junior, 1904), Mech. Engr., Harrison Bldg.

YOUNG, Chas. D. (Junior, 1902), Asst. Engr. M. P., Penna. Lines, W. of Pittsburg, Room 716, New First Natl. Bank Bldg., and 644 Franklin Ave.

Conneaut, Ashtabula Co.

BROWN, J. Linwood (1902), M. E., R. F. D. No. 1.

FICKINGER, P. J. (1888), Mech. Engr., P. & C. Dock Co.

Dayton

AYERS, Norwood B. (1908), Ch. Engr., Dayton Ltg. Co., 124 E. 4th St., and 422 Summers St.

BROWN, Donald S. (Junior, 1908), Sales Mgr., Dayton Hyd. Mchy. Co., and *for mail*, 448 Huffman Ave.

CANBY, Harry Beaver (Junior, 1904), 2d V. P., Crawford, McGregor & Canby Co., and *for mail*, 308 Central Ave.

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Dayton (Continued)

CHAMBERLIN, William F. (Associate, 1907), Secy. and Genl. Mgr., Dayton Hyd. Mchy Co., and 448 E. Huffman Ave.

DEEDS, Edwd. Andrew (Associate, 1900), 2d V. P., and Asst. Mgr., Natl. Cash Register Co., and *for mail*, 319 Central Ave.

KING, Roy S. (Junior, 1904), Genl. Supt., Hall-Cronan Co., 1111-1113 U. B. Bldg., and *for mail*, 43 Wroe Ave.

MARTIN, Haakon A. (Associate, 1908), Ch. Draftsman, Inv. 5, Natl. Cash Register Co.

RIPSCH, Charles William (Junior, 1908), Ch. Draftsman, Engrg. Dept., Natl. Cash Register Co., and *for mail*, 113 Hawthorn St.

SCHNEBLE, Rudolph G. (1897), Mech. Engr., 1623 E. 3d St.

SMITH, Orin Gould (Junior, 1899), Platt Iron Wks. Co., and *for mail*, No. 4 Russell Apts.

VAILE, J. Henry (1888), Vaile & Kimes, and *for mail*, 119 N. Jefferson St.

YATES, Richard Llewellyn (Junior, 1907), Hyd. Engr., Waterwheel and Turbine Pump Dept., Platt Iron Wks. Co., and *for mail*, 1129 Grand Ave.

East Columbus

FRANKENBERG, George T. (Associate, 1907), Mech. Engr., Ralston Steel Car Co., and *for mail*, 87 Latta Ave., Columbus.

East Liverpool

DAVIS, Alfred C. (1909), M. M., Pa. Lines W. of Pittsburg, 218 7th St.

East Norwood

GOLDSMITH, Nathaniel Oliver (1900), Ch. Engr., Weir Frog Co., and *for mail*, 2319 Monroe Ave., Norwood.

Elyria

MARTELL, Louis H. (1906), Specialist in Metal Packings.

PIERCY, Edgar (1891), 282 Washington Ave.

Hamilton

CULLEN, James K. (1886), Pres., Niles Tool Wks., and 315 Dayton St.

HELVEY, Geo. Stanley (Junior, 1904), 303 N. 2d St.

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Hamilton (Continued)

HOLMAN, R. Claude (1907), Ch. Draftsman, Hooven, Owens, Rentschler Co.

HUGHES, Burton Shelley (1908), Cons. Engr., Champion Fibre Co., of Canton, N. C., and Champion Coated Paper Co., and *for mail*, 4 Park Terrace.

KUTTER, H. L. (1902; 1907), Sales Mgr. and Engr., The Black-Clawson Co., and *for mail*, 128 Ludlow St.

MAYO, Wm. Benson (1900), Secy. and Genl. Mgr., Hooven, Owens, Rentschler Co.

REISS, George T. (1890), V. P., Niles Tool Wks.

SEE, James W. (1880), Mech. Engr., Rentschler Bldg.

TROWBRIDGE, Francis C. (Junior, 1889), Secy., Treas. and Genl. Mgr., The Black-Clawson Co., and 449 N. 3d St.

WOOD, Augustus (1901), Ch. Draftsman, Niles Tool Wks. Co., and *for mail*, 378 S. D St.

Ivorydale

ANDERSON, Robert (1907), Ch. Engr., Proctor & Gamble Co., and 4501 Park Ave., Winton Pl., Cincinnati.

Lexington

SMITH, Harry Ford (1908), Secy. and Genl. Mgr., Smith Gas Power Co.

Lima

DOEBLER, Chas. H. (1900), Genl. Mgr., Lima Brake Shoe Co., and 127 S. Jamison Ave.

WALL, Geo. L. (1897; 1904), Asst. Genl. Mgr., Lima Loco. & Mch. Co., and *for mail*, 1103 W. High St.

Lorain

SUPPES, Max M. (1890), National Tube Co.

Mt. Vernon

THOMAS, Fred H. (Junior, 1909), C. & G. Cooper Co.

Mansfield

BROWN, John Rowland (1900; 1904; 1909), Mech. Engr., Ohio Brass Co.

Massillon

CROXTON, Herbert A. (1903), Pres. and Treas., Massillon Iron & Steel Co., and 145 E. Main St.

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Massillon (Continued)

GARRIGUES, Edmund (1900), Ch. Draftsman, Russell & Co., and *for mail*, 38 S. Cedar St.

HEGGEM, Charles O. (1889), Supt., Russell & Co., and *for mail*, 335 E. Main St.

RUSSELL, C. M. (Associate, 1886).

TAYLOR, John W. (Junior, 1909), Ch. Draftsman, Russell Eng. Co., and *for mail*, 88 3d St.

Middletown

KAFFENBERGER, Gustav (1883), Mech. Engr., Shartle Bros. Mch. Co., and *for mail*, 335 Tytus Ave.

Niles

GORTON, J. C. (1897; 1899), Supt., Harris Automatic Press Co., and *for mail*, 210 Olive St., Warren.

Portsmouth

YORK, L. D. (1889).

St. Marys

BUCKLEY, John Francis (1906), Cons. Engr. to Genl. Supt., St. Marys Mch. Co.

HEISLER, Charles L. (1895).

HEISLER, F. Wm. (1897; 1909), Ch. Draftsman, Heisler Co.

Salem

ASLAKSON, Baxter M. (1896), Mech. Engr., Buckeye Eng. Co., Lock Box 157.

EMENY, Fred'k. James (Associate, 1899), Ch. Engr., The Deming Co., and *for mail*, 459 Cleveland Ave.

HUNT, Charles B. (1902), Supt. of Constr., Buckeye Eng. Co., and 636 McKinley Ave.

MANSFIELD, Albert K. (1887), Cons. Engr., 283 Lincoln Ave.

WEEKS, Charles H. (1892), V. P., Buckeye Eng. Co., Lock Box 175, and 301 McKinley Ave.

Sandusky

KENT, William (1880), Manager, 1885-1888; V. P., 1888-1890; Genl. Mgr., Sandusky Fdy. & Mch. Co., and 326 Washington St.

MILLSPAUGH, William H. (Associate, 1903), Pres., Sandusky Fdy. & Mch. Co.

ROBERTS, Edmund W. (1904), Mech. Engr., V. P. and Genl. Mgr., Roberts Motor Co.

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South Euclid

McKECHNIE, Robert R. (1897).

Springfield

BAUER, Chas. L. (1900; 1901), Pres., Foos Mfg. Co., and 1215 E. High St.

BAYLEY, W. (1904), Pres. and Ch. Engr., Wm. Bayley Co., and *for mail*, 521 S. Fountain Ave.

BAYLEY, W. D. (1902), V. P. and Supt., Wm. Bayley Co., and *for mail*, 221 S. Fountain Ave.

HOPPES, John J. (1890), Pres., Hoppes Mfg. Co., and Trump Mfg. Co., and *for mail*, 1311 E. High St.

KELLY, O. W. (1885), Pres., O. S. Kelly Co., and 621 S. Fountain Ave.

PERKS, George W. (1908), Supt., Am. Seeding Mch. Co., and 370 S. Yellow Springs St.

SHOUVLIN, Patrick J. (1909), Prop., Superior Gas Eng. Co.

WEINLAND, Hermon Goodwin (Junior, 1905), Mech. Engr., Safety Emery Wheel Co., and *for mail*, 241 S. Plum St.

Toledo

CALDER, C. B. (1895), Gen. Mgr., Toledo Ship Bldg. Co., 623 W. Bancroft St.

HALLENBECK, George E. (1908), Genl. Supt., Baker Bros., Post St. and Westlake Ave., and 2403 Lawrence Ave.

KIRK, George E. (Junior, 1906), Pat. Lawyer, Suite 1649, The Nicholas, and 2118 Erie St.

LUEHRS, Daniel Michael (Junior, 1907), Ch. Engr. and Supt., McCreery Engrg. Co.

POPE, Harold L. (Junior, 1905), Genl. Mgr., Toledo Motor Co., and *for mail*, 2406 Robinwood Ave.

RATHBUN, Edward (1908), 2d V. P., Rathbun-Jones Engrg. Co., Spencer St.

RATHBUN, Geo. Jay (1904), V. P. and Engr., Rathbun-Jones Engrg. Co., and 2447 Collingwood Ave.

WUERFEL, Geo. D. (1908), Member of Firm, Wuerfel & Miggett, Cons. and Mech Engrs., 1125 Ohio Bldg.

YARYAN, Edward B. (Junior, 1903), Supt., Yaryan Naval Stores Co., 513 Gardner Bldg., and 308 W. Bancroft St.

YARYAN, Homer T. (1892), V. P., Yaryan Naval Stores Co., 513 Gardner Bldg.

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Xenia

GARFIELD, Lyman Morse (Associate, 1893), Supt., Miami Powder Co., and *for mail*, 428 N. Galloway St.

Youngstown

BIXLER, Harry Zera (1907), 224 W. Rayen Ave.

HOUSUM, Chenoweth (Associate, 1908), William Tod Co., and *for mail*, 525 Bryson St.

KIRKEVAAG, Peter (1886), Life Member; Engr., William Tod Co., and 711 Elm St.

McBANE, Walter Watson (Associate, 1908), Designer, William Tod Co., and *for mail*, 525 Bryson St.

McDEVITT, Frank J. (Junior, 1906), V. P. and Mgr., Ohio Steam Specialty Co., and *for mail*, 1011 Mahoning Ave.

NORTON, Fred Elmer (1907), Ch. Engr., William Tod Co.

PINGER, Geo. C. (Junior, 1907), William Tod Co., and *for mail*, 239 Spring St.

REYNOLDS, Irving H. (1896), V. P. and Mgr., William Tod Co., and 704 Bryson St.

ROBINSON, C. Snelling (1900), 2d V. P., Youngstown Sheet & Tube Co., and *for mail*, 429 Wick Ave.

RUST, William F. (1904), Ch. Engr., Youngstown Sheet & Tube Co., and Lincoln Apts.

WEAR, Burt C. (Junior, 1905), Draftsman, Engrg. Dept., Republic Iron and Steel Co., and *for mail*, 272 Arlington St.

WICK, Henry (Associate, 1903), 725 Dollar Savings & Trust Co. Bldg.

WINTERROWD, William H. (Junior, 1907), Roundhouse Foreman, L. S. & M. S. Ry., and *for mail*, 120 Baldwin St.

WOODARD, Louis A. (1900; 1904), Wks. Mgr., William Tod Co., and Boardman.

YOUNG, John P. (1899; 1906), Genl. Mgr., Youngstown Car Mfg. Co.

Zanesville

McCOY, William (Junior, 1903), Mech. Engr., Ayers Mineral Co., and Central Silica Co., and *for mail*, 544 Adair Ave.

OKLAHOMA

Clinton

HANSON, Walter S. (Associate, 1902).

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Muskogee

GREEN, Charles Henry (Junior, 1905), Member of Firm, M. A. Earl & Co.

OREGON

Corvallis

GARDNER, Thomas M. (1903), Prof. Elec. Engrg., Oregon Agricultural College, and *for mail*, Box 682.

Portland

BALL, Bert Chas. (1898; 1904), Treas. and Chief Engr., Willamette Iron & Steel Wks., and 480 Harrison St.

CORBETT, William H. (1899), Pres. and Mgr., Willamette I. & S. Wks., Pres., Oregon Dry Dock Co., and 618 Kearney St.

EVANS, William Penn (1907), Northwestern Rep., Baldwin Loco. Works, 811 Couch Bldg.

GRELLE, Charles Edward (Junior, 1900), Pres. and Mgr., Independent Fdy. Co., 23d and York Sts., and 1100 Franklyn St.

RAYMOND, Herbert Emmons (Junior, 1906), Mech. Engr., MacNaughton, Raymond & Lawrence, 606-609 Concord Bldg., and 135 E. 54th St.

REED, Samuel Gordon (Junior, 1896), Pres., German American Bank.

SWEET, Franklin (Junior, 1903), 603 E. Main St.

WARREN, Walter B. (Associate, 1901), V. P., Warren Bros. Co., 321 Beck Bldg., and 1157 Thurman St.

PENNSYLVANIA

Allegheny

ALBREE, Chester B. (1886; 1897), Pres. and Chief Engr., Chester B. Albree Iron Works, 1115-1131 Market St., and 1116 Western Ave.

ELY, Sumner Boyer (1896; 1901), V. P., Chester B. Albree Iron Wks. Co., and 5122 Pembroke Pl., Pittsburg.

Allentown

FRANKS, Fredk. B. (1904), Operating and Constr., Cement Plant, 129 N. West St.

ROBINSON, H. B. (1897), Mech. Engr., Supt. of Shops, Allentown Rolling Mills, and *for mail*, P. O. Box 135.

WATSON, George Linton (Junior, 1905), Civil Engr., Fuller Eng. Co., and 3249 N. 15th St., and *for mail*, Engineers' Club, Philadelphia.

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Altoona

DUDLEY, Charles B. (1883), Chemist, Penn. R. R. Co., P. O. Drawer 156.

DUNBAR, William Otis (1904), Asst. Engr., Test Dept., Penn. R. R., and 1216 13th St.

KIESEL, William Frederic, Jr. (1907), Asst. Mech. Engr., Penn. R. R., 12th Ave. and 12th St., and *for mail*, 2320 Broad Ave.

RHOADS, George Elwood (Junior, 1906), Inspr., Test Dept., Penn. R. R. Co., and *for mail*, 1120 17th Ave.

VOGT, Axel S. (1884), Mech. Engr., Penn. R. R. Co.

WOOD, Benjamin F. (1897; 1907), Asst. Engr., M. P. Dept., Penn. R. R. Co., and 1200 Second St., Juniata Sta.

Ambridge

BERNARD, James L. (1902), Mech. Engr., Amer. Bridge Co., and Beaver, Beaver Co.

Beaver Falls

KING, John H. (1895; 1904), 3622 5th Ave.

Bethlehem

FRITZ, John (1881; Honorary, 1900), V. P., 1882-1884; Pres., 1896; Cons. Engr., 155 Market St.

JOHNSTON, J. Frank (1897), 34 N. Center St.

SIRICH, J. Henry, Jr. (Associate, 1907), Power Dept., Bethlehem Steel Co., and *for mail*, 222 S. High St.

Braddock

DANKS, Alfred C. (Junior, 1907), Ch. Engr., Gas. Engs., Edgar Thompson Wks., Carnegie Steel Co., and *for mail*, 331 West St., Wilkinsburg Sta., Pittsburg.

Bradford

ROSE, John H. (Associate, 1907), Secy. and Genl. Mgr., Bradford Electric Light & Power Co.

Braeburn

METCALF, Wm. (1880), V. P., 1882-1884; Steel Mfr., Braeburn Steel Co., and *for mail*, 5821 Wilkins Ave., Pittsburg.

Bridgeport

BRAY, Charles W. (1888), R. D. No. 1.

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Bridgeport, Montgomery Co.

WILKINSON, Alfred (1895).

Bristol

DODDS, Wm. E. (1891), Genl. Mgr., Standard Cast Iron Pipe & Fdy. Co.

Brookville

JENKS, William H. (1889).

Butler

CHRISTIANSON, Andrew (1907), Ch. Engr., Standard Steel Car Co., and *for mail*, 198 W. Pearl St.

TURNER, Charles H. (Junior, 1905), Standard Steel Car Co., and *for mail*, 501 W. Jefferson St.

Carbondale

HAMILTON, Wm. Juel (1905), Asst. Secy., Hendrick Mfg. Co.

HILLER, N. H. (1902), V. P., Carbondale Mch. Co., and 68 Laurel St.

TRAUTWEIN, Alfred P. (1884), V. P., Amer. Welding Co.

Chester

STEVENSON, William Alston (1900), Mgr., Keystone Drop Forge Wks.

Clairton

LEAHY, Frank E. (Junior, 1909), Steam Engr., Carnegie Steel Co., and 123 Kensington Ave.

Clarion

KLAHR, Charles Dean (Junior, 1905).

Coatesville

ENTREKIN, Norman Reese (1906), Supt. Mech. Dept., Worth Bros. Co., and Coatesville Rolling Mill Co., and *for mail*, 541 Chestnut St.

HALDEMAN, Paul Collins (Junior, 1906), M. M., Lukens Iron & Steel Co., and *for mail*, 576 Chestnut St.

HUSTON, Charles L. (Associate, 1887), V. P., Lukens Iron & Steel Co., and 64 S. 1st Ave.

Conshohocken

LOGAN, John W. (1894; 1899; 1904), Steel Works Dept., Alan Wood, Iron & Steel Co.

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Du Bois

EYERMANN, Peter (1908), Ch. Engr., Du Bois Iron Wks.

East Downington

STANDLEY, Albert H. (Junior, 1899), Genl. Supt., Downington Mfg. Co., and *for mail*, Box 3, also 336 E. Lancaster Ave.

East Mauch Chunk

FREEMAN, Stuart E. (1896).

Easton

FIRMSTONE, Frank (1880).

FREDERICK, Floyd Willis (1907), Mech. Engr., Natl. Board of Fire Underwriters, and *for mail*, 235 Valley Ave.

WHITE, Edward F. (1891), Cons. Engr., Sulphur Plants, and Sand Lime Brick Plants.

E. Pittsburg

ARMSTEAD, Frank Conant (1906), Supervising Engr., Stoker Dept., Westinghouse Mch. Co.

BARTON, Henry L. (1903), Mgr. of Wks., Westinghouse Mch. Co., and 7217 McPherson St., Pittsburg.

BOLE, Wm. A. (1887), Cons. Mech. Engr., Westinghouse Mch. Co., and *for mail*, 722 S. Negley Ave., Pittsburg.

BRINTON, Willard C. (Junior, 1907), Industrial Engr., Westinghouse Elec. & Mfg. Co., and *for mail*, 611 Whitney Ave., Wilkinsburg Sta., Pittsburg.

COX, Frederick W. (1908), Asst. Mgr. of Wks., Westinghouse Elec. & Mfg. Co., and Seventh Ave. Hotel, Pittsburg.

DREYFUS, Edwin D. (Junior, 1905), Westinghouse Mch. Co.

FLINT, William P. (1903), Engr., Gas Eng. Dept., Westinghouse Mch. Co., and *for mail*, 5623 Wellesley Ave., Pittsburg.

HALE, Frederick J. (Junior, 1902), Eng. Dept., Westinghouse Mch. Co., and *for mail*, 1133 Franklin Ave., Wilkinsburg.

HERR, Edwin M. (1891), 1st V. P., Westinghouse Elec. & Mfg. Co., and *for mail*, 140 Hutchinson Ave., Edgewood Park, Pittsburg.

HERR, Herbert T. (1907), Gen. Mgr., Westinghouse Mch. Co., and 4807. S. Atlantic Ave., Pittsburg.

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E. Pittsburg (Continued)

HODGKINSON, Francis (1902), Mech. Engr., Westinghouse Mch. Co., and *for mail*, 127 Linden St., Edgewood Park.

KINGSBURY, Albert (1892), Mech. Engr., Westinghouse Elec. & Mfg. Co., and *for mail*, 219 Stratford Ave., Pittsburg.

KLINCK, J. Henry (1904), Commercial Engr., Industrial and Power Dept., Westinghouse Elec. & Mfg. Co., and *for mail*, Amber Club, 123 N. Negley Ave., East End, Pittsburg.

LINCOLN, Paul Martyn (1907), Engr., Power Div., Westinghouse Elec. & Mfg. Co., and *for mail*, P. O. Box 911, also 6830 Thomas St., Pittsburg.

LONGWELL, Henry E. (1901), Asst. to the V. P., Westinghouse Mch. Co., and 715 S. Negley Ave., Pittsburg.

McCLELLAND, E. S. (1891; 1898), Asst. Ch. Engr., Westinghouse Mch. Co., and *for mail*, 6837 Thomas Blvd., Pittsburg.

McFARLAND, Walter M. (1883), V. P., 1905-1907; Acting V. P., Westinghouse Elec. & Mfg. Co., P. O. Box 911, and 6941 Thomas Blvd., Pittsburg.

MARTIN, Frederick Sheldon (1905), Supt., Industrial Motor Dept., Westinghouse Elec. & Mfg. Co., and *for mail*, 309 Hutchinson St., Swissvale Station, Pittsburg.

NORRIS, Edson R. (1906), Supt. Mfg. Methods and Labor Costs., Westinghouse Elec. & Mfg. Co., and *for mail*, 205 Vine St., Edgewood Park.

ROSE, E. Ernest (Junior, 1900), Engr., Westinghouse Elec. & Mfg. Co., and *for mail*, 2012 Hampton Ave., Swissvale.

SCHAAKE, William (Junior, 1898), Engr., Ry. Engrg. Dept., Westinghouse Elec. & Mfg. Co.

SEAVER, Edward, Jr. (Junior, 1903), Asst. Condenser Engr., Westinghouse Mch. Co., and 6108 Alder St., E. E., Pittsburg.

SMART, Richard Addison (1894; 1900; 1906), Asst. Mgr. of Works, Westinghouse Elec. & Mfg. Co., and 423 Ross Ave., Wilkinsburg.

SWEET, Charles E. (1907), Supt., Steam Turbine Constr., Westinghouse Mch. Co., and 1331 Singer Pl., Wilkinsburg.

TAYLOR, Alexander (1907), Mgr. of Wks., Westinghouse Elec. & Mfg. Co.

THOMAS, Jay G. (Junior, 1906), Draftsman, Westinghouse Mch. Co., and *for mail*, 739 Penn Ave., Wilkinsburg.

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E. Pittsburg (Continued)

YAWGER, Edwin (Associate, 1899), Westinghouse Mch. Co., and Edgewood Park.

Eddystone, Delaware Co.

ALBRECHT, Otto (1884), Mech. Engr., Tindel Morris Co., and 1405 N. 15th St., Philadelphia.

AUSTIN, William F. (1905), Supt., Eddystone Plant, Belmont Iron Wks.

Edgeworth, Allegheny Co.

SHIELDS, William D. (Junior, 1908), Mech. Engr., Oliver Iron & Steel Co.

Ellwood City

STIEFEL, Ralph C. (1897), Mech. Engr.

Ellwood City, Lawrence Co.

SMITH, Howard Wells (Junior, 1892), Ch. Engr., Standard Eng. Co., and *for mail*, P. O. Box 126.

Erie

ARMSTRONG, E. J. (1886; 1891), Engr., Ball Engine Co., and *for mail*, 954 West 9th St.

BEHREND, Ernst Richard (1900), Pres. and Genl. Mgr., Hammermill Paper Co., and East Lake Rd.

CONRADER, Rudolph (1893), Supt., Brass Dept., Jarecki Mfg. Co., and *for mail*, 708 Parade St.

CONRATH, George B. (1907), Genl. Mgr., Nagle Corliss Eng. Wks., and *for mail*, 443 E. 6th St.

HOLMES, Walter G. (1897; 1907), Amer. Sterilizer Co., and *for mail*, 824 Cranberry St.

JARECKI, Alex H. (1889; 1905), Secy., Jarecki Mfg. Co., and *for mail*, 305 W. 6th St.

STEVENS, R. C. (1890; 1906), Ch. Engr., Skinner Eng. Co., and *for mail*, 427 W. 11th St.

Fombell, Beaver Co.

RUTH, Wilbur M. (1886).

Franklin

CAREW, Clement J. (1902), Supt. and Genl. Mgr., Chicago Pneumatic Tool Co., 1001 Liberty St.

CARPENTER, Allan O. (Associate, 1909), Ch. Draftsman, Chicago Pneumatic Tool Co., and *for mail*, Box 271.

ELVIN, Albert George (1907), Mech. Mgr., Franklin Railway Supply Co., and 1141 Elk St.

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Franklin (Continued)

GRIEVES, E. W. (1891), Mech. Expert, Galena Signal Oil Co., and *for mail*, 1756 Park Ave., Baltimore, Md.

HASKELL, Broderick (1903), V. P. and Genl. Mgr., Venango Mfg. Co.

SEDGWICK, Edw. V. (1907), Mgr., Exper. Dept., Galena Signal Oil Co.

Galeton

DREYFUS, Theo. Frank (Junior, 1903), Supt. Motive Power, Buffalo & Susquehanna R. R.

Greenville

BRODHEAD, Alex. L. (Junior, 1900), Pres. Greenville Silica Sand & Quarry Co., and *for mail*, Catasauqua.

Gwynedd Valley

CATHCART, William L. (1899).

Harrisburg

ALLEN, Benj. T. (1903), Ch. Engr., Harrisburg Fdy. & Mach. Wks., and *for mail*, R. F. D. No. 1, Box 69.

MACKENZIE, William Percival (1907), V. P. and Genl. Mgr., Harrisburg Fdy. & Mch. Wks., and 213 State St.

Haverford

TATNALL, James Edward (1883).

Hazleton

NICKEL, Franz F. (1899), Cons. Engr., Jeanesville Iron Wks. Co., and 27 Winans St., East Orange, N. J.

Hollidaysburg

KIRK, William Fell (1893), Mgr., McLanahan-Stone Mch. Co., 1005 Allegheny St.

Johnstown

GEER, James H. (1884), Engr. of Constr., Cambria Steel Co., and *for mail*, 431 Somerset St.

KEVORKIAN, Zareh H. (Junior, 1905), Draftsman, Cambria Steel Co., and *for mail*, P. O. Box 122.

MARSHALL, Stewart McCulloch (Associate, 1907), Asst. Ch. Engr., Cambria Steel Co., and *for mail*, 120 Tioga St.

MORGAN, Joseph (1881), V. P., 1886-1888; Cons. Engr., Cambria Steel Co., and *for mail*, 408 Tioga St., Westmont.

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Johnstown (Continued)

SHEPERDSON, John Wm. (Associate, 1908), Steam Engr., Cambria Steel Co., and *for mail*, 534 Grove Ave.

Kittanning

PAUL, John Wallace (1895; 1896), Supt., Pittsburg Wtg. Mch. Co.

Lansford

SHENBERGER, Geo. H. (Junior, 1909), Draftsman, Lehigh Coal and Navigation Co.

STRAW, Charles A. (1896; 1904), Mech. Supt.

Lebanon

CROWELL, William Jas., Jr. (Junior, 1908), Gas and Test Engr., Am. Iron and Steel Mfg. Co., and 128 E. Cumberland St.

FARRELL, W. Elliston (1900), V. P. and Genl. Mgr., M. H. Treadwell & Co. of Pa., Pres., Stoever Fdy. & Mfg. Co., Genl. Mgr. and Treas., Lebanon Steel Casting Co., and *for mail*, 426 Chestnut St.

McKeesport

CORNELIUS, William A. (Junior, 1893), Mgr., Natl. Tube Co., Natl. Wks., and 1121 S. Park St.

HOERR, Alexander L. (1907), Steam and Hyd. Engr., Natl. Tube Co., Natl. Wks., and *for mail*, 1011 McCleary St.

SAUNDERS, A. M. (1898), Supt., Natl. Tube Co., and *for mail*, 1416 Library Ave.

McKees Rocks

FERRIER, Walter (1908), Supt., Carnegie Steel Co., Schoen Steel Wheel Plant, and 3313 Allendale St., Sheridanville.

LINDSTROM, Charles A. (1891), Chief Engr., Pressed Steel Car Co., and 35 Library Pl., Allegheny.

Meadville

BIXBY, William P. (Junior, 1908), Erie Railroad Co., and *for mail*, P. O. Box 364.

Media, Delaware Co.

WOOD, William H. (1889), Engr., and Builder Special Mchy.

Middletown

KING, George I. (1901), V. P. and Genl. Mgr., Middletown Car Wks.

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Munhall

PARSONS, William Claude (Junior, 1906), Blast Furnace Draftsman, Carnegie Steel Co., Homestead Steel Wks., and *for mail*, 2433 Woodstock Ave., Braddock.

Myerstown

GIELE, Walter S. (Junior, 1908), Supt., Stoever Fdy. & Mfg. Co., and *for mail*, Box 295.

Nazareth

HERBERT, Jack Stanley (1908), Ch. Engr., Wm. B. Shaffer Engrg. Co., Natl. Bank Bldg.

Northampton

CROLL, A. Gilbert (Associate, 1901), Supt., Atlas Portland Cement Co., and *for mail*, 30 S. West St., Allentown.

Oakmont

DUDEN, Emil G. (Junior, 1907), Ch. Engr., W. B. Scaife & Sons Co.

Oil City

GNADE, Edward R. (1895; 1905), Oil Well Supply Co.

PLATT, Wilber O. (1902), V. P. and Supt., Jos. Reid Gas Eng. Co.

REID, Joseph (1904), Pres., Joseph Reid Gas Eng. Co., Main St., and 21 Orange St.

STEEN, Arthur B. (1903), Mgr., Natl. Transit Co. Shops.

WHITE, George Henry (1906), Supt., Oil City Boiler Wks., and *for mail*, 4 Lincoln St.

Philadelphia

AFFLECK, H. Watson (Associate, 1906), Pres., Keystone Engrg. Co., 719-21 Noble St., and *for mail*, 4451 North 20th St.

ATTERBURY, Wm. Wallace (1894), 5th V. P., Penn. R. R. Co., Broad St. Sta.

BANCROFT, J. Sellers (1880), Genl. Mgr. and Mech. Engr., Lanston Monotype Mch. Co., 1231 Callowhill St., and *for mail*, 917 Pine St.

BARNES, William O. (1908), Asst. Supt., Miller Lock Co., and *for mail*, 4642 Penn St., Frankford.

BARTH, Carl G. (1898), Cons. Engr., 803 Lehigh Ave., and Lock Box 3039, Fairhill Sta.

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Philadelphia (Continued)

BAUSH, George Henry (1905), M. E. and Genl. Sales Mgr., Fay Mch. Tool Co., and *for mail*, 2101 Spring Garden St.

BILGRAM, Hugo (1885), Machinist, 1235 Spring Garden St., and 751 N. 40th St.

BIRKINBINE, John (1888), Cons. Engr., Odd Fellows' Temple, Broad and Cherry Sts., and *for mail*, Cynwyd, Montgomery Co.

BLATCHLEY, Chas. A. (1906), Mech. Engr., 1052 Drexel Bldg., and 47 Walnut St., Haddonfield, N. J.

BONZANO, Adolphus (1892), Pres., Bonzano Rail Joint Co., Pennsylvania Bldg., 15th and Chestnut Sts., and *for mail*, 331 S. 18th St.

BRAMAN, Samuel N. (Junior, 1902), Westinghouse Mch. Co., 1006 North American Bldg.

BRIGHT, Holstein DeH. (1905; Associate, 1906), Mgr. Iron Casting and Spring Depts., Standard Steel Wks. Co., Baldwin Loco. Wks., 1008 Harrison Bldg., and *for mail*, 1608 Summer St.

BROWN, Richard P. (Junior, 1908), Mfr. Pyrometers, Edward Brown & Son, 311 Walnut St.

BRUEGEL, A. Theodore (1900), Hess-Bright Mfg. Co., 21st St. and Fairmount Ave., and 1926 Spring Garden St.

BUDD, Edward G. (1903), Mgr., Hale & Kilburn Metal Co., 19th St. and Glenwood Ave., and *for mail*, 610 W. Rittenhouse St.

BULLOCK, Samuel A. (1906), Engr., Baldwin Loco. Wks., 500 N. Broad St., and Media.

BURNHAM, Wm. (Associate, 1888), Pres. and Treas., Standard Steel Wks. Co., Harrison Bldg., and *for mail*, 4301 Spruce St.

BURTON, Isaac Francis (1908), Asst. Supt., Victor Talking Mch. Co., and *for mail*, 5219 Walnut St.

BUVINGER, George A. (1901; 1904), Hydraulic Engr., D'Olier Engrg. Co., 119-121 S. 11th St.

CARROLL, Alexander W. (1905), 502 Arcade Bldg.

CHAMPION, Harry W. (1904), Pres., Newton Mch. Tool Wks., Inc., 24th and Vine Sts., and *for mail*, 2018 Mt. Vernon St.

CHILD, Edward Taggart (Junior, 1896), Box 222, Rosemont, and *for mail*, 5th St. and Washington Ave.

CHILDS, Harold P. (Junior, 1903), Mgr., Philadelphia Office, Westinghouse Mch. Co., North American Bldg., and 6342 Greene St., Germantown.

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Philadelphia (Continued)

CHRISTIE, James (1885), Vice-Pres., 1902-1904; Life Member; Cons. Engr., 100 Rochelle Ave., Wissahickon.

CLARK, Walton (1890), 3d V. P., The United Gas Impt. Co., Broad and Arch Sts., and Chestnut Hill.

COOKE, Morris L. (Junior, 1903), Cons. Engr., Wayne Ave. and Walnut Lane, Germantown.

COOKE, St. George H. (Junior, 1905), Civ. Engr., 1322 Real Estate Trust Bldg., and 608 Morton Ave., Ridley Park.

CROFOOT, George Emerson (Junior, 1907), Instr. Mech. Engrg., Univ. of Penn.

DALLETT, Elijah (1900), Mech. Engr., Midvale Steel Co., and *for mail*, Chestnut Hill.

DALLETT, W. P. (1888), Life Member; Hydraulic Engr. and Contractor, 49 N. 7th St., and Media.

DAUGHERTY, Frank (Junior, 1909), Cons. Engr., 2107 Chestnut St.

DAWES, Robert (1890; 1896), V. P. & Supt., Haskell, Dawes Mch. Co., Erie and Trenton Aves., and 5014 Penn St., Frankford.

DAY, Charles (Junior, 1902), member of firm, Dodge & Day, Engrs., Washington Bldg., 608 Chestnut St., and Jenkintown.

DODGE, James Mapes (1884), Manager, 1891-1894; V. P., 1900-1902; Pres., 1903; Chairman of Board, Link-Belt Co., Pres., J. M. Dodge Co., and Pres., Internatl. Combustion Co., Phila., and McKean Ave., Germantown.

DODGE, Kern (Junior, 1902), member of firm, Dodge & Day, Washington Bldg., 608 Chestnut St., and 5135 Pulaski Ave., Germantown.

DONOVAN, Wm. F. (1883), Pres., Blackstaff & Co., 1332 Walnut St.

DRYSDALE, Dr. W. A. (1890), Cons. Elec. Engr., 413-418 Hale Bldg., Juniper and Chestnut Sts.

EARLE, Edgar P. (1889; 1905), Pres., Earle Gear & Machine Co., Stenton and Wyoming Aves., Wayne Junct., and *for mail*, 23d St., near Graver's Lane, Chestnut Hill.

EASBY, Francis H. (1888), 3316 Powelton Ave.

EHLERS, Peter (1890), Ch. Engr., Wm. I. McCahan Sugar Refining Co., foot Tasker St., and *for mail*, 3227 N. 17th St.

ELY, Theo. N. (1880), Manager, 1880-1882; V. P., 1882; Chief of Motive Power, Penn. R. R. System E. and W. of Pittsburg, Broad St. Sta., and Bryn Mawr.

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Philadelphia (Continued)

EYNON, Thomas M. (1902), Pres., Eynon-Evans Mfg. Co., 15th and Clearfield Sts., and 1426 Allegheny Ave.

FAIRBANKS, Adolphe S. (1899, Associate, 1904), Engrg. Dept., Vandyck-Churchill Co., 917 Arch St.

FELTON, Edgar Conway (1885), Manager, 1898-1901; Pres., Penn Steel Co., 300 Franklin Bank Bldg., and *for mail*, Haverford.

FIRTH, William Edgar (1893), Ch. Engr., Midvale Steel Co., Box 1606, and 402 West Chelten Ave.

FISCHER, Ad. Koerting (1904), Pres., Schutte & Koerting Co., 12th and Thompson Sts., and *for mail*, 6904 Wissahickon Ave.

FLAGG, Stanley G., Jr., (1891), S. G. Flagg & Co., 424 N. 19th St.

FORD, Bruce (1907), Engr., Electric Storage Battery Co., 19th St. and Allegheny Ave., and 25 Summit St., Chestnut Hill.

FRANCIS, Harry C. (1884), Pres. and Director, Francis Bros. & Jellett (Inc.), N. W. cor. Broad and Wallace Sts., and 6445 Greene St., Germantown.

FRANCIS, W. H. (1884), Trust Co. of North America, 503 Chestnut St.

FREEMAN, Perry John (Junior, 1908), Instr. Mech. Engrg., Univ. of Penn.

FULLER, Allen Jenckes (1901), Supt., Bureau of Water, City Hall, and 3327 Powelton Ave.

FULWEILER, John Edwin (Junior, 1908), Engrg. Dept., Otto Gas Wks., 33d and Walnut Sts., and *for mail*, 4335 Chestnut St.

GIBSON, Jas. Edwin (Associate, 1896; 1901), Asst. Engr., Amer. Pipe Mfg. Co., 112 N. Broad St., and 419 Yale Ave., Swarthmore, Del. Co.

GOETZ, Victor J. (Junior, 1893), Refrig. Engr. and Contr., 206 S. 11th St., and 3228 Page St.

GORDON, Fred. W. (1880), 43 E. Walnut Lane.

GRAY, John Wilson (Junior, 1895), Representative, Newport News Shipbuilding & Dry Dock Co., of Newport News, Va., and *for mail*, The Normandie, 36th and Chestnut Sts.

GREEN, Thomas W. (1902), Ch. Engr., Wilbraham-Green Blower Co., and 2007 E. Allegheny Ave.

HAGMAN, W. J. (1901), Genl. Mgr., Bement, Miles Wks., 21st and Callowhill Sts., and The Brantwood Apts.

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Philadelphia (Continued)

HAGY, J. Lawrence (Junior, 1901), 1539 N. 19th St., Tioga.

HAINES, Edward Preston (1907), Mech. Engr., Sun Power Co., Tacony.

HALL, Robert E. (1898; 1905), Asst. to V. P., Francis Bros. & Jellett, Inc., Broad and Wallace Sts., and *for mail*, 7802 Lincoln Drive, St. Martins.

HALSEY, Jas. T. (1885), Motor Trucks, 336-338 York Ave., and 105 S. 22d St.

HAND, Francis Ludlam (1888), 1948 N. 18th St.

HANSELL, William H. (1908), Member Firm, Edward Smith Co., Cons. Engrs., 605 Provident Bldg., and *for mail*, 4420 Sansom St.

HARVEY, Minor (1908), Engr., Morse, Williams & Co., and *for mail*, 4217 Haverford Ave.

HASKINS, Harry S. (Associate, 1887), 1524 N. 15th St.

HEAD, Francis (1906), 109 W. Chelten Ave., Germantown.

HESS, Henry (1906), Pres., Hess-Bright Mfg. Co., 21st St. and Fairmount Ave., and 2300 Green St.

HIBBERT, Walter W. (1897; 1904), Supervising Engr., 415 Hale Bldg.

HILLER, Joseph Lilburne (Associate, 1907), Mech. Engr., Pennsylvania Crusher Co., Stephen Girard Bldg.

HOWARD-SMITH, Spurrier (1898), Treas. Link-Belt Co., Nicetown, and 4838 Pulaski Ave., Germantown.

HOWELL, Edward I. H. (1889), Mech. Engr., Room 260 Bullitt Bldg., and 5218 Germantown Ave.

IRELAND, M. L. (Junior, 1902), 1st Lieut., Ordnance Dept., U. S. Army, Frankford Arsenal.

JACKSON, Arthur C. (Junior, 1903), Supt., Secy. and Treas., Miller Lock Co., 4533 Tacony St., and *for mail*, Adams Ave. and Orthodox St., Frankford.

JONES, Washington (1880), Mgr., 1880-1881; V. P., 1882; 1632 N. 15th St.

KELLER, W. H. (Junior, 1908), Supt., Keller Mfg. Co., 21st St. and Allegheny Ave.

KELLY, Gregory C. (Junior, 1904), Mgr., Gregory C. Kelly Co., 418 Stephen Girard Bldg., and *for mail*, 141 Springfield Ave., Chestnut Hill.

KENNEY, Lewis H. (Junior, 1904), Draftsman-in-charge, Dept. Steam Engrg., Navy Yard.

KINDER, J. J. de (1885), Cons. Engr. and Atty.-at-Law, de Kinder & McNeal, and *for mail*, The Gladstone.

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Philadelphia (Continued)

KING, Charles W. G. (1906), Supt., U. S. Metallic Packing Co., and *for mail*, 429 N. 13th St.

KIRKUP, Joseph P. (Junior, 1908), Phila. Mgr., L. J. Wing Mfg. Co., and *for mail*, 1421 Arch St.

KNEASS, Strickland L. (1890), Mgr., Injector Dept., Wm. Sellers & Co., Inc., 1600 Hamilton St., and 418 S. 15th St.

LADD, Jas. B. (1884), Cons. Engr., R. E. Trust Bldg., Broad and Chestnut Sts.

LAFORE, John Armand (1904), Sales Mgr., D'Olier Engrg. Co., 119 S. 11th St., and Bala.

LAND, Frank (1900), Secy. and Treas., Land, Wharton Co., 912 Pennsylvania Bldg., and 22 Berkeley Road, Merion.

LAUER, Conrad N. (Associate, 1903), Mgr., Dodge & Day, Washington Bldg., 608 Chestnut St., and 2217 Estaugh St.

LAWRENCE, J. P. Stuart (1885), Commodore, U. S. N., The Art Club.

LEWIS, Wilfred (1884), V. P., 1901-1903; Life Member; Pres., Tabor Mfg. Co., 18th and Hamilton Sts., and *for mail*, 5901 Drexel Road.

LINCH, Edward P. (1902), R. E. Trust Bldg.

LONGSTRETH, Charles (1899), Pres., U. S. Metallic Packing Co., 427 N. 13th St., and Landsdowne.

LOSS, Henrik V. (1892), Cons. Engr., North American Bldg.

LOVELL, Alfred (1899), Cons. Engr., 819 Harrison Bldg., and 31 Sellers Ave., Kingsessing Sta.

LOWE, Wm. Vose (1889; 1892), Engr. and Salesman, Hess-Bright Mfg. Co., and *for mail*, 27 Mechanic St., Fitchburg, Mass.

McBRIDE, Thomas C. (1908), Sales Mgr., Internatl. Steam Pump Co., and *for mail*, 724 Arch St.

MACHOLD, Charles E. (1901), Mech. Engr., Machold & Riddell, Engineers and Contractors, Stephen Girard Bldg., and 17 West Phil-Ellena St., Germantown.

MELVILLE, Geo. W. (1893), V. P., 1895-1897; Pres., 1898-1899; Life Member; Rear Adm., Engr.-in-Chief, U. S. N., Retired, Melville & Macalpine, Cons. Engrs. and Naval Architects, 532 Walnut St., and *for mail*, 620 N. 18th St.

MILLER, Frank Louis (Associate, 1907), Erecting Engr., Southwark Fdy. and Mach. Co., and *for mail*, 304 Everhart St., Johnstown.

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Philadelphia (Continued)

MIRKIL, Thomas H., Jr. (1884), Supt., Southwark Fdy. & Mch. Co., and *for mail*, Cynwyd, Mont. Co.

MORRIS, Henry G. (1882), V. P., 1887-1889; 333 Walnut St.

MOTT, Abram Cox, Jr. (Junior, 1907), 2nd V. P. and Genl. Mgr., Abram Cox Stove Co., American and Dauphin Sts., and The Woods, Box 71, Lansdale.

MUCKLE, John S. (1904), Mech. Engr., West End Trust Bldg., and 2023 Walnut St.

MUCKLE, M. R., Jr. (1885), Mech. Engr., 1722 Pine St.

MUMFORD, Edgar Huidekoper (1887; 1892), Pres., E. H. Mumford Co., 1223-5 Spring St., and *for mail*, 320 S. 4th St.

MURPHY, Edward Thomas (Junior, 1905), Mgr., Philadelphia Office, Buffalo Forge Co., 1022 Land Title Bldg., and 267 S. 55th St.

NAEGELEY, John C. (1901), Engr. and Arch., 73 Rochelle Ave., Wissahickon.

NAYLOR, John Samuel (1887), Prop., People's Wks., Front St. and Girard Ave., and Chestnut Hill.

NIBECKER, Karl (Junior, 1908), Instr. Mech. Engrg., Univ. of Penn., and *for mail*, Glen Mills, Del. Co.

NORRIS, Wm. H. (1904), Mech. Engr., Philadelphia Elec. Co., 1000 Chestnut St.

PARKER, John C. (1905), Genl. Mgr., Parker Boiler Co., Penna. Bldg.

PLEASONTON, F. Rodney (Junior, 1908), Smith & Furbush Mch. Co., Hancock and Somerset Sts., and *for mail*, Edgewater Park, N. J.

POULTNEY, John Livingston (1908), Contr. Engr., 112 N. Broad St.

RAMSDEN, John Thomas (1906), Tabor Mfg. Co., 18th and Hamilton Sts., and *for mail*, 1911 N. 17th St.

RIDDELL, A. H. (1901), Machold & Riddell, 1020 Stephen Girard Bldg., and Mountwell Ave., Haddonfield, N. J.

RIPPEY, S. Howard (1904; 1905), Cons. Engr., Sellers & Rippey, 1301 Stephen Girard Bldg., and 432 W. Bringhurst St., Germantown.

ROBERTS, Percival, Jr. (1888), V. P., 1893-1895; 717 Arcade Bldg., and *for mail*, Narberth, Mont. Co.

ROMMEL, Charles E. (1885; 1885), Commander U. S. Navy, Retired, 1904 Spring Garden St.

RUSBY, John M. (1893), Engr. of Tests, United Gas Imp. Co., Broad and Arch Sts., and University Club.

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Philadelphia (Continued)

SALTER, Thomas Fitch (1905; 1907), Ch. Engr., Standard Roller Bearing Co., 50th and Lancaster Ave.

SATHERBERG, Carl Hugo (1893), Ch. Engr., Midvale Steel Co., Nicetown, and 1752 N. 26th St.

SCHAKEL, Jacob Daniel (Associate, 1907), Asst. Mech. Engr., Otis Elevator Co., cor. 12th and Sansom Sts., and *for mail*, 4536 N. Gratz St.

SCHAUM, Otto W. (1894), Schaum & Uhlinger, Mfrs. of Mchy., Glenwood Ave. and 2nd St., and 3136 N. Broad St.

SCHOFF, George C. (1894), Rep. Babcock & Wilcox Co., 1010 North American Bldg., and 4205 Pine St.

SCHREUDER, Andrew M. (Junior, 1898), Supt., Phila. Textile Mchy. Co., Hancock and Somerset Sts., and *for mail*, 6201 Germantown Ave., Germantown.

SCHUMANN, Francis (1887), Mech. and Civil Engr., 15 Pelham Road, Germantown.

SEARS, Willard T. (1889; 1904), Secy., and 1st Asst. Engr., Engrg. Bureau, Niles-Bement-Pond Co., 21st and Callowhill Sts., and *for mail*, 629 N. 19th St.

SELLERS, Coleman, Jr. (1882), Manager, 1890-1893; Pres. and Engr., Wm. Sellers & Co., Inc., 1600 Hamilton St.

SHAW, Arthur D. (Associate, 1905), Engr., Link-Belt Co., Nicetown, and *for mail*, 318 Hansberry St., Germantown.

SHELMIRE, W. H., Jr. (1889), Mech. Engr., Supervising Engr., John Lang Paper Co., 24th and Vine Sts., and 69th and Lawnton Ave., Oak Lane.

SHEPPARD, John Leefe, Jr. (Associate, 1906), Supt. of Constr., Am. Rys. Co., and *for mail*, Scranton Ry. Co., Scranton.

SIBSON, Horace E. (Junior, 1904), Mech. Engr., Harrison Safety Boiler Wks., 17th St. and Allegheny Ave., and *for mail*, 6719 Germantown Road.

SINCLAIR, Geo. M. (1887; 1890), Cons. Engr., 618 Chestnut St., and The Newport.

SMITH, Gilbert S. (1893), Engr., 1228-30 Race St., and Oak Lane.

SMITH, T. Carpenter (1886), Mech. Engr., 220 S. Broad St.

SPACKMAN, Henry S. (1899), Pres., Henry S. Spackman Engrg. Co., 42 N. 16th St., and 105 Ardmore Ave., Ardmore, Mont. Co.

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Philadelphia (Continued)

SPANGLER, H. W. (1888), Prof. Mech. Engrg., Univ. of Pennsylvania.

SPENCER, William J. (Junior, 1906), Wyndmoor, Chestnut Hill.

STEVENSON, A. A. (1888), V. P., Standard Steel Works, 1103 Harrison Bldg., and Ardmore.

STOKES, Samuel E. (1894), 5419 Wayne Ave., Germantown.

STROBEL, Victor O. (1892), Genl. Mgr., Crane Dept., Niles-Bement-Pond Co., Mifflin and Meadow Sts., and 1537 Pine St.

TAYLOR, Frederick W. (1886), V. P., 1904-1905; Pres., 1905-1906; Cons. Engr., Highland Station, Chestnut Hill.

THOMPSON, Samuel Kesley (Associate, 1900), Mast. Mech., Stanley G. Flagg & Co., 19th St., and Penn Ave., and *for mail*, Jenkintown.

THORNE, Wm. H. (1884), Engr., Wm. Sellers & Co., Inc., 1600 Hamilton St., and *for mail*, 221 Gowen Ave., Mt. Airy.

TITCOMB, George E. (1908), Genl. Mgr., J. M. Dodge Co., and 60 W. Tulpehocken St.

TOWNSEND, David (1882), V. P., 1899-1901; Mech. and Cons. Engr., Room 55, De Long Bldg., cor. 13th and Chestnut Sts., and *for mail*, 1723 Wallace St.

TRAMPE, J. Adam C. L. de (1904), 1703 Spruce St.

TWINING, Wm. S. (1897), Ch. Engr., Phila. Rapid Transit Co., 820 Dauphin St., and *for mail*, 160 W. Coulter St., Germantown.

VAN DUZEE, Harold (Junior, 1885), Cons. Engr., 427 Walnut St.

VAUCLAIN, S. M. (1894), V. P., 1904-1906; Supt., Baldwin Loco. Wks., 500 N. Broad St., and Rosemont.

WARREN, Ambrose Gilmore (1907), Mech. Engr., J. W. Paxson Co., 1613 Green St.

WEBSTER, William R. (1889), Cons. and Insp. Engr., 411 Walnut St.

WEEKS, Paul (Junior, 1905), Baldwin Loco. Wks.

WHEELER, Clifton Harold (1901), V. P. and Genl. Mgr., C. H. Wheeler Mfg. Co., Lehigh Ave. and 18th St., and 521 Lincoln Drive.

WHITE, Wm. M. (1906), Hydr. Engr., I. P. Morris Co., Beach and Ball Sts., and 150 Maplewood Ave., Germantown.

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Philadelphia (Continued)

WHITHAM, Jay M. (1883), Cons. Engr., 607 Bullitt Bldg.

WILLE, Henry Valentin (1900), Asst. to Supt., Baldwin Loco. Wks., 500 N. Broad St., and 743 Corinthian Ave.

WILLIAMSON, Wm. C. (1882), Valley Road and 12th St., Oak Lane.

WOLF, Otto C. (1889), Engr., Rooms 511-512 Denckla Bldg., and 1706 Master St.

WOOD, Albert Carroll (1894; 1900; 1904), Cons. Mech. Engr., Pennsylvania Bldg., Cor. 15th and Chestnut Sts., and 1317 Spruce St.

WOOD, Edward R., Jr. (Junior, 1900), Sales Mgr., R. D. Wood & Co., 400 Chestnut St., and *for mail*, 245 S. 17th St.

WOOD, Walter (1880; 1890), R. D. Wood & Co., 400 Chestnut St., and 1620 Locust St.

YARNALL, D. Robert (Junior, 1903), Mech. Engr., 316 Preston St.

ZIMMERMAN, John Edward (Junior, 1907), Member of Firm, Dodge & Day, 608 Chestnut St., and Willow Grove.

Pittsburg

AMSLER, W. O. (Junior, 1897), Engr., 749 Wabash Bldg., and 5510 Magaretta St.

ANDERSON, Howard Lee (Junior, 1907), Steam Engr. Operating Dept., 1329 Frick Bldg., and 660 W. Superior St., Chicago, Ill.

ASHWORTH, Daniel (1885), Life Member; Cons. Engr., U. S. Pension Office, and 67 Ridge Ave., Crafton.

AYERS, Hobart B. (1903), Genl. Mgr., H. K. Porter Co., and *for mail*, 7211 Mead St., Homewood.

BAGGALEY, Ralph (Associate, 1891), Life Member; Pres., Pyritic-Conversion Copper Smelting Co., Farmers' Bank Bldg., and 5th Ave. & Emerson St.

BEHREND, Bernard A. (1909), Elec. and Mech. Engr., 5754 Howe St., E. E.

BENNETT, Chas. W. (1904), Asst. to Pres., American Sheet & Tin Plate Co., 1320 Frick Bldg., and 5800 Darlington Rd.

BENTLEY, Ernest W. (1904), Mgr., Pittsburg Office, Skinner Eng. Co., 507 Diamond Bank Bldg., and 388 Vermont Ave, Rochester.

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Pittsburg (Continued)

BOWMAN, Franklin Meyer (1894; 1902), Structural Engr., Riter-Conley Mfg. Co., 55 Water St., and *for mail*, Lincoln and Starr Aves., Bellevue, Allegheny Co.

BOYD, William Charles (1907), Asst. Engr., Pittsburg Rys. Co., 435 Sixth Ave., and *for mail*, McKees Rocks.

BRASHEAR, John A. (1891; Honorary, 1908), Manager, 1899-1902; Mfr. Astronomical and Physical Instruments, 1954-1964 Perrysville Ave., N. S.

BRAY, Thos. Jos. (1898), V. P., Republic Iron & Steel Co., Frick Annex, and *for mail*, 334 S. Dallas Ave.

BRIDGE, James Weldon (Associate, 1905), Mech. and Elec. Engr., United Coal Co., Jenner Quemahoning Coal Co., Pittsburg & Baltimore Coal Co., Naomi Coal Co.

CARPENTER, Henry Albert (1893; 1899), V. P., Riter-Conley Mfg. Co., 56 Water St., and *for mail*, R. F. D. 3, Sewickley.

CHESTER, John Needels (1905), Genl. Sales Mgr., Epping-Carpenter Co., 41st St. and A. V. R. R.

CLAPP, Geo. H. (1891), Pres., Pittsburg Testing Laboratory, 325 Water St., and Edgeworth.

COFFIN, Wm. Carey (1894), Struc. Engr., Jones & Laughlin Steel Co., and *for mail*, 5930 Howe St.

CONNELLEY, Clifford B. (Associate, 1895), Dean of Schools for Apprentices and Journeymen, Carnegie Tech. Schools, Schenly Park, and Osgood and Maripoe Aves., N. S.

CORNELIUS, Henry Robert (1888), Sales Mgr., Wisconsin Eng. Co., 832 Frick Bldg., and Darlington Rd.

CRAWFORD, David Francis (1899), Genl. Supt. M. P., Penn. Lines, Union Sta., and Rittenhouse.

DAVIS, Herbert R. (Junior, 1901), Asst. to Gen. Mgr., Kansas Natural Gas Co., Farmers' Bank Bldg.

DINKEY, A. C. (1902), Pres., Carnegie Steel Co., Carnegie Bldg., Ellsworth and Amberson Aves.

ELLIS, Frank I. (1907), Ch. Engr., United Eng. and Fdy. Co., 2312 Farmers' Bank Bldg., and *for mail*, 723 N. St. Clair St.

ELMER, Wm. (Junior, 1896), M. M., P. R. R., 28th St. and Liberty Ave., and 5705 Walnut St.

FICKES, Edwin S. (Associate, 1902), Engr. and Purchasing Agent, Aluminum Co. of Am., and *for mail*, 6111 Alder St.

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Pittsburg (Continued)

FISHER, Henry Donald (Junior, 1907), Supervising Engr., Factory K, U. S. Glass Co., 18th and Merriman Ave., S.S., and 325 Morwood Ave.

FLAGG, S. B. (Junior, 1907), Asst. Engr., Tech. Branch U. S. Geolog. Survey, and *for mail*, 40th and Butler Sts.

FOLLER, Chas. S. (1906), M. E. and Asst. Treas., 616 Farmers' Bank Bldg., and *for mail*, 108 Sprague Ave., Bellevue, Allegheny Co.

GOWIE, William (1905), M. E. and Supt., Scott Iron & Steel Co., Carnegie, and Emily and Warren Aves., Crafton.

GRAVES, James Madison (Associate, 1905), Supt. Power Stations, Allegheny County Light Co., 435 6th Ave.

GRETH, J. C. Wm. (1908), Mgr., Water Purifying Dept., Wm. B. Scaife & Sons Co., and *for mail*, 221 First Ave.

HACKSTAFF, John D. (Junior, 1901), Supt., Engrg. Dept., Hope Engrg. and Supply Co., 901 Farmers' Bank Bldg.

HART, Rogers Bonnell (Associate, 1907), Ch. Draftsman, Pittsburg Gage & Supply Co., 30th and Liberty Sts., and *for mail*, 7413 Race St.

HELANDER, A. H. (1903), M. E., Mesta Mch. Co., and 1514 Asbury Place.

HERRON, James H. (1897; 1905), Mgr., Motch & Merryweather Mchy. Co., Farmers' Bank Bldg.

HILES, Elmer K. (1900; 1906), 803 Fulton Bldg., and *for mail*, 5537 Hampton St.

HODGES, Chas. Bowen (Junior, 1897), H. K. Porter & Co.'s Shop.

HUNTER, John A. (1909), Steam Engr., Am. Sheet & Tin Plate Co., and *for mail*, 553 Mifflin Ave., Wilkinsburg.

HUNTING, Eugene Nathan (Junior, 1904), Engr., Nicola Bldg. Co., Farmers' Bank Bldg., and Welchville, Oxford Co., Me.

JOHNSON, Charles W. (1908), Ch. Insp., Westinghouse Elec. & Mfg. Co., and *for mail*, 6823 Thomas Blvd.

KAUFMAN, Emanuel (Associate, 1902), Mgr., Kro-Van Steel Co., 1411 Park Bldg., and 5815 Fifth Ave.

KELLER, Emil E. (1894), 201 Murtland Ave., E. E.

KENT, Robert Thurston (Junior, 1905), Managing Editor, Industrial Engineering, Empire Bldg.

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Pittsburg (Continued)

KNISELY, E. S. (1906), Western Rep., Bethlehem Steel Co., 1110-13 Keystone Natl. Bank Bldg., and *for mail*, P. O. Box 1017.

KNOWLES, Morris (1907), Ch. Engr., Bureau of Filtration, City Hall, and 839 N. St. Clair St., E. E.

KOHLER, David S. (1900), Genl. Supt., Oliver Iron & Steel Co., and 5705 Wellsley Ave., E. E.

KOON, Sidney Graves (Junior, 1905), Exp. Engr., Open-Hearth Dept., Jones & Laughlin Steel Co., and *for mail*, 342 Meyran Ave.

LADD, George Tallman (1896; Associate, 1901), Engr., 1620 Farmers' Bank Bldg., and Duquesne Club.

LESTER, Bernard (Junior, 1906), Asst. to Mgr., Industrial and Power Dept., Westinghouse Elec. & Mfg. Co., and *for mail*, Amber Club, 123 N. Negley Ave.

LOWE, Henry Leland (Junior, 1903), Carnegie Tech. Schools.

LYON, Tracy (1893), Asst. to 1st V. P., Westinghouse Elec. & Mfg. Co., P. O. Box 911, and Woodland Rd.

McKEAN, Robert Andrews (1895), Supt., Keystone Wks., Jones & Laughlin Steel Co., 3140 2d Ave., and *for mail*, 714 S. Negley Ave.

McKINNEY, W. S. (1891), Pres., McKinney Mfg. Co.

MERRILL, Josiah Leverett (Associate, 1904), Dist. Mgr., Burke Elec. Co., 1427 Park Bldg., and 5744 Holden St.

MESTA, George (1894), Pres., Mesta Machine Co., Lewis Bldg., and Doyle St., West Homestead.

MOORE, L. C. (1902), Cons. Mech. Engr., Lee C. Moore & Co., 5-6 Stevenson Bldg., and *for mail*, 7437 Race St.

MOORE, Wm. Enoch (1903), Cons. Engr., West Penn Ry. & Ltg. Properties, and Amer. Water Wks. & Guarantee Co., 704 Bank for Savings Bldg.

MURRAY, J. Weidman (1901), Mgr., Pittsburg Office, Allis-Chalmers Co., 814 Frick Bldg., and 6024 Jackson St., E. E.

NEWTON, Lewis W. (1903), Engr., Room 629, Wabash Bldg., and Glenfield.

PATTERSON, Peter C. (Junior, 1897), Engr., Natl. Tube Co., 554 Frick Annex, and 15th St. and Library Ave., McKeesport.

PINKERTON, Andrew (1892), Mech. Engr., P. O. Box 427.

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Pittsburg (Continued)

PORTERFIELD, Henry A. (1890), Mgr., Dexter Oil Co., 1222 Grant Blvd.

QUIGLEY, Jas. Edwin (Junior, 1900), Mgr., Insulation Dept., Armstrong Cork Co., 23d and River, and *for mail,* 466 Rebecca St.

RUUD, Edwin (1889), The Ruud Mfg. Co., 29th and Smallman Sts., and 4735 Maripac Ave.

SEWELL, J. G. Clifton (Junior, 1892), Tenn. Coal, Iron & R. R. Co., and *for mail,* 319 Amber St., E. E.

SMITH, Cameron C. (1906), Pres and Genl. Mgr., Union Steel Castings Co., and 719 N. Negley Ave.

SMITH, Carl D. (Junior, 1909), Asst. Engr., Tech. Branch, U. S. Geolog. Survey, 40th and Butler Sts.

SNYDER, Robert M. (Junior, 1890), 502 Jeanette St., Wilkinsburg.

SNYDER, William E. (1900), Mech. Engr., Am. Steel & Wire Co., Frick Bldg., and *for mail,* 3624 California Ave., Allegheny.

STAFFORD, Benjamin E. D. (Junior, 1895), Genl. Mgr., Flannery Belt Co., 328 Frick Bldg., and Akron Apts., Craig and Center Ave.

STEWART, Reid T. (1894), Acting Head Engrg. Dept., and Prof. Mech Engrg., Univ. of Pittsburg, and 1524 Shady Ave.

STUCKI, Arnold (1907), Engr., Farmers' Bank Bldg., and *for mail,* 1615 Falk Ave., N. S.

STUTZ, Chas. C. (1900), Asst. Ch. Engr., Pittsburg Plate Glass Co.

SVENSON, John A. F. (1888), Mech. Engr., Bessemer Bldg.

TABER, George H. (1894), Genl. Mgr., Gulf Refining Co., Frick Bldg. Annex, W., and 136 W. Swissvale Ave., Edgewood Park.

TATE, John M., Jr. (Associate, 1907), Pres., Tate, Jones & Co., 805 Empire Bldg.

TRINKS, Chas. Leopold W. (1905), Prof. Mech. Engrg., Carnegie Tech. Schools, and 5719 Woodmont Ave.

WADSWORTH, Frank L. O. (1903), Cons. Engr., Sewickley, and Duquesne Club.

WESTINGHOUSE, George (Honorary, 1897).

WILLIAMS, D. Curtis (1891), Mech Engr., 664 Maryland Ave.

WILSON, Henry D. (Junior, 1903), Wilson-Snyder Mfg. Co., 2 Ross St., and Thornburg, Allegheny Co.

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Pittsburg (Continued)

WILSON, Nelson C. (1906), 209 9th St.

WOOD, Geo. R. (1906), Cons. Elec. Engr., 1207-8 Park Bldg.

WURTS, Edward Vanuxem (Associate, 1897), Mech. Engr., United Engrg. and Fdy. Co., and *for mail*, 622 Kirtland St.

WYCKOFF, Arcalous W. (Junior, 1897), Pres., A. W. Wyckoff Co., 2323-24 Farmers' Bank Bldg., and 328 Morewood Ave.

Port Carbon

ALLISON, Robert (1884), Mech. Engr., Ret.

Pottstown

CHADWICK, Lee S. (Junior, 1899), Pres. and Genl. Mgr., Chadwick Engrg. Wks., and 407 Franklin St.

JONES, David Todd (1898; 1904), Treas. and Genl. Mgr., Wilbraham-Green Blower Co., and *for mail*, 818 High St.

NICHOLS, John T. (Junior, 1903), 315 King St.

Pottsville

WRIGHT, Reginald A. (1907), Ch. Draftsman, Pottsville Shops, Phila. & Reading Coal & Iron Co., and *for mail*, Y. M. C. A. Bldg.

Reading

BELL, Joseph M. (1899), Mech. Engr., Reading Iron Co., and *for mail*, 140 North 4th St.

HEIZMANN, Lewis J. (Junior, 1907), Asst. Treas. and Ch. Engr., Penn. Hardware Co., and *for mail*, 318 N. 5th St.

SCHUHMANN, George (1884), V. P. and Genl. Mgr., Reading Iron Co., and *for mail*, 1032 Penn St.

Scottdale

ROBINSON, James R. (1905), Mgr., Scottdale Fdy. & Mch. Co., and *for mail*, Mt. Lebanon, Allegheny Co.

Scranton

CLEMENS, A. B. (1904), Prin. Sch. Mech. Engrg., I. C. S., and 1532 Monsey Ave.

FOSTER, Rufus J. (Associate, 1890), V. P., Internatl. Text Book Co., Wyoming Ave., and 807 Clay Ave.

HARRIS, John J. (1901), Mech. Engr., Board of Education, Scranton H. S., Washington Ave. and Vine St., and *for mail*, 207 Stephen Ave.

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Scranton (Continued)

HOLLOWAY, Thurman Welford (Junior, 1906), Asst. Prin., Sch. of Mech. Engrg., I. C. S., and 1642 Madison Ave.

MATTES, Wm. F. (1882), Retired, 514 Board of Trade Bldg., and 1529 Sanderson Ave.

SMITH, William E. (Junior, 1908), Mech. Engrg. Dept., D. L. & W. R. R., and *for mail*, 518 Olive St.

VAN NOSTRAND, Leonard Green (Junior, 1906), V. P. and Secy., Stone-Van Nostrand Co., and Asst. Secy. and Treas., Pa. Anthracite Coal Co., and *for mail*, 525 Monroe Ave.

WEBBER, Henry (1886), Mech. Engr., Finch Mfg. Co., and *for mail*, 125 Harper St., Dunmore.

Shamokin

MULLEN, John (1886), Pres., Shamokin Iron Wks., 516 N. Franklin St., and 129 S. Shamokin St.

Sharon

KRANZ, William G. (1909), Genl. Supt. and Ch. Engr., Natl. Malleable Castings Co.

MORRISON, Egbert R. (Junior, 1906), Asst. Mgr., Sharon Boiler Wks., and *for mail*, Morrison & Martin, Pat. Engrs.

Shawnee-on-Delaware

WORTHINGTON, Charles C. (1882), Manager, 1883-1886; Manwalamink.

S. Bethlehem

BLAKELEY, George Henry (1907), Structural Engr., Bethlehem Steel Co., and *for mail*, 727 Seneca St.

BROWN, Walter S. (1894; 1904), Engr. Power Dept., Bethlehem Steel Co., and *for mail*, 304 Seventh Ave., Bethlehem.

COLBY, Albert Ladd (1893), Cons. Engr., and Iron and Steel Metallurgist, 447 Lehigh St.

HAWKS, Arthur S. (1904; 1909), Engr., Power Dept., Bethlehem Steel Co., and 313 Wall St., Bethlehem.

HOWARTH, Harry A. S. (1908), P. O. Box 174.

JOHNSTON, Archibald (1901), 1st V. P., Bethlehem Steel Co., and 120 Church St., Bethlehem.

KLEIN, Arthur W. (Junior, 1903), Asst. Prof. Mech. Engrg., Williams Hall, Lehigh Univ., and 158 S. New St., Bethlehem.

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S. Bethlehem (Continued)

KLEIN, Joseph F. (1881), Life Member; Dean of Faculty and Prof. Mech. Engrg., Williams Hall, Lehigh Univ., and 357 Market St., Bethlehem.

LEIBERT, John (1900), Supt. of Forge, Bethlehem Steel Co., and *for mail*, 141 S. New St., Bethlehem.

MOWERY, John Norris (1906), Mech. Engr., Lehigh Valley R. R., and *for mail*, 738 Seneca St.

NAGLE, A. F. (1880), care E. G. Grace, Genl. Mgr., Bethlehem Steel Co., and 22 S. High St., Bethlehem.

SCHWAB, Charles M. (1899), Pres., 111 Broadway, and Riverside Drive, New York, N. Y.

SHELDON, Samuel B. (Junior, 1900), Genl. Supt., Saucon Dept., Bethlehem Steel Co.

STOUT, R. Paul (1906), Engr. of Exper. Ordnance, Bethlehem Steel Co., and *for mail*, 404 Market St., Bethlehem.

VON PHILP, C. (1890), Mgr. Mchy. Dept., Bethlehem Steel Co., and Bethlehem.

WAERN, Adolph Wm. (1908), Engr. Mchy. Dept., Bethlehem Steel Co., and 210 Broad St., Bethlehem.

WEST, Arthur (1902), Mgr. Power Dept., Bethlehem Steel Co., and 114 S. High St., Bethlehem.

State College, Center Co.

DIEMER, Hugo (1904), Prof. Mech. Engrg., Pa. State College.

FOWLER, Sterling DeW. (Junior, 1907), Asst. Prof. Heat Engrg., Pa. State College, and Berwick, Columbia Co.

JACKSON, John Price (1903), Dean School of Engrg., Pa. State College, and Cons. Engr.

WOOD, Arthur J. (1898; 1907), Assoc. Prof. Exp. Engrg., Pa. State College, and 222 College Ave.

Swarthmore, Del. Co.

BEARDSLEY, Arthur (1883), Life Member; Emeritus Prof. Engrg., Swarthmore College.

Treichler

KUNTZ, Wellington W. (Associate, 1903).

Vandergrift

BODWELL, Howard L. (1907), Dist. M. M., Am. Sheet & Tin Plate Co.

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Warren

SMITH, Mark Elmer (Junior, 1908), Struthers-Wells Co., and *for mail*, 246 W. 21st St., Erie.

Washington

LAMBIE, James McC. (Junior, 1908), 549 E. Chestnut St.

Waynesboro

FRICK, Abraham O. (1885), Pres., Frick Co., and *for mail*, Clayton Ave.

Wilkes Barre

BUNTING, Douglas (1902), Ch. Engr., Lehigh & Wilkes Barre Coal Co., and *for mail*, 26 West Ross St.

COWARD, Herbert (Junior, 1905), Coward & Long, People's Bank Bldg., and 309 Philadelphia Ave., West Pittston.

NICHOLSON, Saml. T. (1904), Pres. and Genl. Mgr., Vulcan Iron Wks., and *for mail*, 187 Hanover St.

NORRIS, Robert V. (1885; 1891), Cons. Engr., 524 Second Natl. Bank Bldg., and 40 S. Franklin St.

WARRINER, Samuel D. (1893), V. P. and Genl. Mgr., Lehigh Valley Coal Co.

Williamson School P. O., Delaware Co

PRATT, James Alfred (Associate, 1908), Instr. in Mch. Wks., Williamson Free School of Trades.

Williamsport

SHEPHERD, Wm. G. (1890; 1904), V. P. and Genl. Mgr., Shepherd Engrg. Co., and *for mail*, Sherman Rd.

WALLIS, James T. (1901), Supt. Motive Power, Erie Div. & Northern Central Ry., and 7 Trinity Pl.

Willow Grove, Montgomery Co.

GOENTNER, William B. (Junior, 1905).

Wilmerding

STREET, Clement F. (1893), Engr., Westinghouse Air Brake Co.

York

CAMPBELL, Gordon (Junior, 1891), V. P. and Genl. Mgr., York Rys. Co., 27 W. Market St.

EKSTRAND, Charles (1898; 1903), Supt., Lowell M. Palmer's Plants.

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York (Continued)

FARQUHAR, Francis (1907), Supt., A. B. Farquhar Co., Ltd.

FELTHOUSEN, John H. (1896), Hydr. and Mech. Engr., S. Morgan Smith Co., and *for mail*, Linden Ave. and West St.

GIBBS, Eugene Uz (1901), Asst. Engr., S. Morgan Smith Co.

SHIPLEY, Thos. (1891), Genl. Mgr., York Mfg. Co., and cor. Linden and West York Aves.

PHILIPPINE ISLANDS

Manila

ALLEN, George L., Jr. (Junior, 1906), P. O. Box 165.

PORTO RICO

Fajardo

SCHERR, Frederick, Jr. (Associate, 1907), Asst. Engr., Fajardo Sugar Co.

San Juan

SALDANA, Eduardo E. (Associate, 1903), Mech. Engr. and Ch. Engr., Central "Carmen," Vega, Alta, and *for mail*, 89 Allen St., also, Santurce.

TEELE, Fred W. (1904), Genl. Mgr., Porto Rico Rys. Co., Ltd.

RHODE ISLAND

Bristol

HERRESHOFF, John B. (1884), Manager, 1893-1896; Pres. and Treas., Herreshoff Mfg. Co.

Hills Grove

MORGAN, Wm. F. (Associate, 1906), N. E. Agt., American Mfg. Co., Treas., Fitchburg Duck Mills, and Treas., R. I. Malleable Iron Wks., and *for mail*, 107 Ames Bldg., Boston, Mass.

Hope Valley

DOCK, Herman (1889), Ch. Engr., Nicholas & Langworthy Mch. Co., N. Y., Safety Steam Power Co.

Pawtucket

CARPENTER, James M. (1907), Pres., Treas. and Genl. Mgr., J. M. Carpenter Tap & Die Co., and 199 West Ave.

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Pawtucket (Continued)

LOWRY, George A. (Associate, 1897), V. P. and Cons. Engr., The Lowry Fabric Mfg. Co., 321 Pine St.

POTTER, James C. (1907), Pres., Potter & Johnston Mch. Co.

SEABURY, Dwight (1906), Mill Engr. and Arch., Tyler Bldg., 12 East Ave., and 72 Moore St., Providence.

SELLEW, Ernest B. (Associate, 1907), Ch. Draftsman, Potter & Johnston Co., and *for mail*, 51 Allen Ave.

Phenix

HOXIE, Frederick J. (1907).

Providence

ALDRICH, John Gladding (1901), Vice Pres. and Genl. Mgr., N. E. Butt Co., and 223 Bowen St.

ALMY, Darwin (1893), Pres., Almy Water Tube Boiler Co., 178-184 Allen Ave.

BABBITT, Geo. Rodney (1888), Pres. and Treas., American Oil Co., 182 S. Water St., and 130 Shaw Ave., Edgewood.

BEAMAN, Elmer A. (1891), Beaman & Smith Co., Gordon and Reynolds Ave., and *for mail*, 237 Washington Ave.

BLISS, Edwin C. (1908), Pres., E. C. Bliss Mfg. Co., and V. P., A. H. Bliss Co., also 91 Sabin St.

BLOOD, Louis Henry (1905), Designer, Brown & Sharpe Mfg. Co., and Oak Lawn.

BROOKS, J. Ansel (Junior, 1907), Asst. Prof. Mechanics and Mech. Drawing, Brown Univ.

BUKER, Henry (1907), Brown & Sharpe Mfg. Co., and *for mail*, 16 Elton St.

BURLINGAME, Luther D. (1903), Ch. Draftsman, Brown & Sharpe Mfg. Co., and *for mail*, 15 Catalpa Rd.

BUTTOLPH, Benjamin Gilbert (1905), V. P. and Engr., Mfrs. Mutual Fire Ins. Co., 815 Banigan Bldg., and 181 Angell St.

CAMPBELL, Jeremiah (Associate, 1896), 35 Weybosset St., and 2 Congdon St.

CHASE, Frederic A. (Associate, 1902), F. A. Chase & Co., and 285 Governor St.

COLLINS, Fred (Junior, 1902), Erecting Engr., Providence Engrg. Works, and *for mail*, 229 Doyle Ave.

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Providence (Continued)

CONNET, Frederick N. (1908), Sales Mgr. Venturi Meter Dept., Builders Iron Fdy., and 67 Whitmarsh St.

CRANSTON, Raymond E. (Junior, 1907), Asst. Engr., 815 Banigan Bldg., and 31 Lawn Ave., Pawtuxet.

DART, William Crary (Associate, 1907), Pres., Rhode Island Tool Co., and 16 Stimson Ave.

DAVIS, Charles Ethan (1896), Supt., Automobile Dept., Am. Loco. Co., and 272 Benefit St.

DU VILLARD, Henry A. (1884), Mech. Engr., 173 George St., East Side Sta.

ESTES, William Wood (1891; 1904), 245 Waterman St., East Side Sta.

FENNER, Herbert N. (Associate, 1891), Pres., New England Butt Co., and 74 Cooke St.

FISH, Charles H. (1891), Genl. Mgr., B. B. & R. Knight.

GARDINER, Andrew J., Jr. (1906), 1413 Broad St.

GILES, C. E. (1891), Agt., Amer. & British Mfg. Co., and *for mail*, 44 Halsey St.

HILL, John W. (1899), Mech. Engr., 835 Broad St.

HURLEY, Daniel (Junior, 1904), 42 E. Manning St.

JENKS, Richard P. (1902), Mech. Engr., 735 Banigan Bldg., and 52 Princeton Ave.

JOHNSON, Henry James (1898), Cons. Mech. Engr., 28 Maple St.

KENERSON, Wm. Herbert (1904), Assoc. Prof. Mech. Engrg., Brown Univ., and 100 Morris Ave.

KENNEDY, William A. (Junior, 1908), Instr. Mech. Drawing, Brown Univ.

LOCKE, Warren S. (1889), Chief of Mch. Dept., Providence Tech. H. S., and *for mail*, 18 Everett Ave.

LOEPSINGER, Albert John (Junior, 1908), Genl. Fire Extinguisher Co., and *for mail*, 41 Atlantic Ave.

McGREGOR, Hugh R. (1903), Mech. Engr., Brown & Sharpe Mfg. Co., and *for mail*, 75 Holden St.

MERRITT, Arthur A. (1907), Mech. Engr., Brown & Sharpe Mfg. Co., and 28 Holden St., Worcester, Mass.

ODE, Randolph Theodore (1901; 1908), Secy., Providence Engrg. Wks., and 557 Fruit Hill Ave., North Providence.

PHETTEPLACE, Thurston M. (Junior, 1904), Asst. Prof. Mech. Engrg., Brown Univ., and *for mail*, 1612 Broad St.

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Providence (Continued)

PINGREE, Edwin Daniel (1905), V. P. and Engr., Mfrs. Mutual Fire Ins. Co., 815 Banigan Bldg., and 99 Hamilton St.

PITKIN, Arthur Frederick (Junior, 1907), Standard Practice Engr., Automobile Dept., Am. Loco. Co.

PITMAN, Stephen Minot (Associate, 1892), Secy., Narragansett Mut. Fire Ins. Co., P. O. Box 1422, and 97 William St.

RICHMOND, Harold A. (Junior, 1898), Pres., Am. Emery Wheel Wks., 325 Waterman St., and *for mail*, 88 Cooke St.

RICHMOND, Knight C. (1891; 1908), Cons. Engr., 526 Banigan Bldg., and 204 Angell St.

RILEY, Robert Sanford (1906), Pres., Am. Ship Windlass Co., Box 53, and 91 Elmgrove Ave.

ROBERTSON, R. A. (1888), Treas., Prov. Engrg. Wks., P. O. Box 1421, and *for mail*, 50 Stimson Ave.

SARGENT, John W. (1886), Providence Engrg. Wks., 521 S. Main St., and 303 Benefit St.

SEYMOUR, Jos. W. (Junior, 1891), Genl. Supt., W. A. Harris Steam Eng. Co., and *for mail*, 41 Arnold St., Edgewood.

SHARPE, Henry D. (Associate, 1901), Treas, Brown & Sharpe Mfg. Co., and *for mail*, 130 Angell St.

SHARPE, Lucian (Associate, 1902), with Brown & Sharpe Mfg. Co., 130 Angell St.

SHELDON, F. P. (1890), Mill and Mech. Engr., Industrial Trust Bldg., and 47 Harvard Ave.

SIMS, Gardiner C. (1886), Life Member; Pres., Wm. A. Harris Steam Engine Co.

SLATER, Alpheus B. (1891), 274 Massachusetts Ave.

SMITH, George H. (1881), The Beaman & Smith Co., Gordon and Reynolds Aves., and *for mail*, 77 Princeton Ave.

VIALL, William A. (Associate, 1902), Secy., Brown & Sharpe Mfg. Co.

WALKER, Sidney G. (1907), Engr., Mfrs. Mut. Fire Ins. Co., 815 Banigan Bldg., and 50 Montague St.

WHIPPLE, Eugene B. (Junior, 1902), Mech. Engr., 75 Westminster St., and 79 Irving Ave.

WHITEHEAD, George E. (1887), Mech. Engr., 621 Broadway.

WILLIAMSON, Leroy A. (Associate, 1902), 48 Custom House St.

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Saylesville

GATES, Thayer P. (Junior, 1906), Sayles' Bleacheries, and *for mail*, Orchard Ave.

PULIS, Wm. Eugene (Junior, 1909), Industrial Engr., Sayles' Bleacheries, and *for mail*, P. O. Box 11.

RENO, Harold P. (Junior, 1907), Sayles' Bleacheries.

WOOD, Kenneth F. (Associate, 1899), Supt., Sayles' Bleacheries, and 23 Maynard St., Pawtucket.

Warren

WIGHTMAN, D. A. (1884), Cons. Engr.

SOUTH CAROLINA

Charleston

BARKLEY, Matthew B. (Junior, 1901), V. P., Cameron & Barkley Co., Charleston Metallic Packing Co., 160 Meeting St., and 137 Rutledge Ave.

Clemson College

EARLE, Samuel Broadus (1905; Associate, 1908), Assoc. Prof. of Mech. Engrg., Clemson College.

Greenville

BANNON, Leo Matthew (Junior, 1908), Asst. Supt., Union Bleaching & Finishing Co.

TENNESSEE

Bemis, Madison Co.

WADLEIGH, George R. (1907), Asst. Mgr., Jackson Fiber Co.

Chattanooga

CATLIN, Abel Delancy (1906; 1907), Pres., Chattanooga Mchy. Co., and 612 Vance Ave.

CATLIN, William Lyle (Junior, 1906), Supt., V. P., Chattanooga Mchy. Co., and 608 Kirby Ave.

OLMSTEAD, George C. (Junior, 1909), Mech. Engr., 635 Vine St.

SANDERS, Newell (1888), Manager, 1902-1905; Prop., Newell Sanders Plow Co.

Columbia

BROWN, Hugh T. (1903), Contracting Engr., and *for mail*, care of Col. H. A. Brown.

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Jackson

COLLIER, Wm. H. (1901; 1904), Supt., Southern Engine & Boiler Wks.

HARRIS, H. M. (Associate, 1906), Mech. Engr., 420 Chester St.

Knoxville

FERRIS, Charles Edward (1904), Prof. Mech. Engrg., Univ. of Tenn., and 1312 White Ave.

JONES, Forrest R. (1890), 1702 Melrose Ave.

Memphis

YORK, Robert (1901; Associate, 1908), V. P., York-Browning Lumber Co.

Nashville

BROWN, Chas. S. (1890), Prof. Mech. Engrg. and Cons. Engr., Vanderbilt Univ., and 21 Garland Ave.

TEXAS

Austin

SCOTT, Arthur Curtis (1908), Prof. of Elec. Engrg., Univ. of Tex.

Cement

GRIFFITHS, Leonard L. (1905; 1908), Genl. Supt. Texas Portland Cement Co.

College Sta.

FERMIER, Emile J. (1908), Prof. Mech. Engrg., Agricultural and Mech. College of Texas.

El Paso

ANDERSON, W. E. (Junior, 1889), Engr. and Mgr., The International Water Co.

GILLIES, Wm. F. (Junior, 1905), Ingersoll-Rand Co.

MORROW, Percy C. (1901; 1903), Mech. Engr., 219 W. Overland St.

Ft. Worth

LUFKIN, Elgood Chauncey (1896), The Texas Co., P. O. Drawer 983.

Houston

BARROWS, Lee Earle (Junior, 1908), Engr., Fuel Oil Dept., Texas Co., Stewart Bldg., and Box 127, Olean, N. Y.

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Houston (Continued)

HASKELL, George O. (Junior, 1899), V. P., Fidelity Cotton Oil & Fertilizer Co.

HILDENBRAND, Harry (Junior, 1909), Genl. Supt., L. C. Ehle Oil Mills.

San Antonio

BARY, Mark (Associate, 1903), Mech. Engr.

TUTTLE, William B. (1905), V. P. and Genl. Mgr., San Antonio Gas & Elec. Co., V. P. and Genl. Mgr., San Antonio Traction Co., 305 Houston St., and Alamo Hgts.

Tyler

UMSTEAD, Chas. Henry (Associate, 1903), Supt. of Constr., U. S. Pub. Bldgs., Treas. Dept., and *for mail*, New Court House.

UTAH

Provo

DAVOUD, Vahram Y. (Junior, 1906), The Telluride Power Co., and University Club, Buffalo, N. Y.

NUNN, Paul N. (1904).

WEGG, David S., Jr. (Junior, 1909), Secy. to Head, Telluride Power Co., Olmstead.

Salt Lake City

ANDERSON, Leslie Douglas (Associate, 1906), Asst. Ch. Engr., U. S. Smelting, Refining & Mining Co., 920 Newhouse Bldg.

BECKSTRAND, Elias H. (1908), Prof. Mech. Engrg., Univ. of Utah.

BREEN, James (Associate, 1893), Ohio Copper Co., 809 Newhouse Blk., and Alta Club.

McGREGOR, Alexander Grant (Junior, 1905), Engr., Internatl. Smelting & Refining Co., and *for mail*, 118 T St.

REPATH, Charles H. (1891), Supt. of Constr., Internatl. Smelting & Refining Co., and *for mail*, Box 1771.

VERMONT

Bennington

BEACH, Charles S. (Junior, 1885), Designer and Machinist, 745 Main St.

SCOTT, Olin (1883), M. E., Prop., Bennington Mch. Wks.

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Burlington

ROBINSON, Edward (1891; 1902), Prof. of Mech. Engrg., Univ. of Vt., and *for mail*, 32 Wildwood St., Winchester, Mass.

Proctor

PROCTOR, Redfield (1905; Associate, 1906), Asst. Supt., Vt. Mble. Co.

South Shaftsbury

COLE, L. W. (1888; 1905), Mech. Supt., Engle Sq. Mfg. Co.

Springfield

FELLOWS, Edwin R. (1898), Mgr., The Fellows Gear Shaper Co.

HARTNESS, James (1891), Life Member; Pres., Jones & Lamson Mch. Co.

WOOLSON, Wm. D. (Associate, 1897), Treas, Jones & Lamson Mch. Co.

Windsor

GRIDLEY, George O. (1902), Supt., Windsor Mch. Co.

VIRGINIA

Blacksburg

RANDOLPH, L. S. (1884), Life Member; Cons. Engr.

Charlottesville

THORNTON, Wm. Mynn (1900), Prof. Applied Math., and Dean Dept. of Engrg., Univ. of Va.

Covington

SANGSTER, William (1894), Supt., Covington Mch. Co., Box 92.

Glamorgan, Wise Co.

DOUGLASS, Wm. M. (1884).

Lynchburg

WILEY, Edgar C. (1903), Cons. Engr., 914 Main St., and 1125 Rivermont Ave.

Miller School

TOMPKINS, Stonewall (1887; 1890), Cons. Engr.

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Newport News

ROSS, Taylor W. (Junior, 1895), Asst. Supt. of Hull Constr., Newport News Ship-Building and Dry Dock Co., and *for mail*, 3112 West Ave.

Norfolk

ADAMS, Julius Leroy (1900), Genl. Supt. of Rys., Norfolk & Portsmouth Traction Co.

BREESE, Charles P. (1903), 123 Colonial Ave.

STANBROUGH, Duncan G. (Associate, 1907), Dept. of Yards & Docks, Navy Yard.

Richmond

ARCHER, Edward R. (1890), Ch. Engr., Tredegar Co., and *for mail*, 303 W. Franklin St.

BEVERLEY, Richard Carter (Junior, 1906), Partner, W. P. Longworth & Co., Engrs. and Contractors, and *for mail*, 621 E. Franklin St.

CAMERON, Barton H. (1903), Pres., Cameron Stove Co., and *for mail*, 116 N. Morris St.

CARACRISTI, Virginius Z. (1904; 1907), Asst. to Mech. Supervisor, Am. Loco. Co., and 2205 Hanover Ave.

JOHNSTON, James M. A. (Junior, 1907), Cons. Engr., 203 Bank of Richmond Bldg., and 204 S. 3d St.

MORRISON, Hugh Stockdell (1901; Associate, 1904), Mech. Engr., 18th and Dock Sts., and *for mail*, 309 S. 4th St.

SCARBOROUGH, Francis Winthrop (1905), Secy., Treas. and Genl. Mgr., Scarborough & Howell, Engrs. and Archs., 723 E. Main St.

SCRIVENOR, Arthur (1901), Pres. and Genl. Mgr., Richmond Foundry & Mfg. Co., and 1002 West Ave.

STROM, Carl A. (1905), Mech. Engr., Steam Shovel & Dredge Dept., Am. Loco. Co.

WILLIS, Edward J. (1895; 1896), Box 164.

Roanoke

KEARNEY, Alex (1897; 1899), Asst. Supt. M. P., Norfolk & Western Ry., and 1026 Henry St., S. W.

PILCHER, John A. (1895; 1904), Mech. Engr., Norfolk & Western Ry. Co., and *for mail*, 1025 Henry St., S. W.

WALLIS, Philip (1886), Hotel Roanoke.

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Saltville

MOUNT, Wm. Dye (1892; 1897), Genl. Supt., Mathieson Alkali Wks.

Williamsburg

BECHTEL, John Adams (Associate, 1900).

WASHINGTON

Pullman

MARTIN, Mack (1908), Asst. Prof. Mech. Engrg., Washington State College, and *for mail*, 121 South St.

Seattle

BEECHER, Henry Ward (Junior, 1908), Chas. C. Moore & Co., 618 Mutual Life Bldg.

BUSHNELL, Leonard T. (Junior, 1906), Engr., Mill Owners Sprinkler Co., 208 Columbia St., and The Otis.

DYER, Robt. M. (1892; 1904), V. P. and Treas., Puget Sound Bridge & Dredging Co., 432-41 Central Bldg., and 420 13th Ave., N.

GORE, Warren W. (1908), V. P., Gas Power Mfg. Co., and *for mail*, 1610 Main St., Olympia.

GUMP, Walter B. (Junior, 1903), Genl. Engr., Hallidie Mchy. Co., Occidental Ave. and King St.

HEFFERNAN, John T. (1894), Pres. and Mgr., Heffernan Engine Works, 108 Railroad Ave., and 1821 17th Ave.

LATTA, Nisbet (Junior, 1902), Cons. Engr.

RODGERS, Myron Knox (1894), Mgr., Hidden Creek Copper Co., American Bank Bldg., and *for mail*, 1601 13th Ave.

SUMNER, Harry W. (Junior, 1900), Rainier Foundry Co., P. O. Box 56, and Lincoln Hotel.

WILSON, Geo. Samuel (Junior, 1907), Instr. Mech. Engrg., Washington Univ.

Spokane

FAWCETT, Wallace H. (Junior, 1903), Washington Water Power Co.

HOY, Austin Y. (Junior, 1906), Northwestern Rep., Sullivan Mchy. Co., Box 1827, and Pennington Hotel.

ZIMMERMANN, Wm. F. (1884), Spokane & Inland Empire R. R. Co., Terminal Bldg., and Short Court.

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WEST VIRGINIA

Charleston

MADDOCK, George F. (1903), Mgr., Kanawha Water & Light Co.

WARD, Charles (1892), Cons. Engr., Charles Ward Engrg. Wks., and 1224 Quarrier St.

WARD, Charles E. (1900), Pres. and Genl. Mgr., Charles Ward Engrg. Wks., and 213 Morris St.

Gary, McDowell Co.

BUFFUM, F. D. (1902; Associate, 1904).

Morgantown

EMORY, Frederick L. (1894), Life Member; Prof. Mech. and Applied Math., W. Va. Univ.

JONES, Clement R. (1898; 1901), Prof. Mech. Engrg., W. Va. Univ., and 262 McLane Ave.

Parkersburg

BRADENBAUGH, Frank E. (Junior, 1902), Asst. Mgr., A. L. Neale & Co.

Wheeling

THOMSON, Francis du Pont (1892; 1899), Cons. Engr., Wheeling Mold & Foundry Co.

WALKER, Gilbert S. (1904), Civil and Mech. Engr., Room 307, P. O. Bldg.

WISCONSIN

Appleton

FANNON, William A. (1907), Mgr., Interlake Pulp & Paper Co., and *for mail*, 460 Alton St.

Beloit

BACHELDER, Joseph Elmer (Junior, 1905), Mgr., Steam Pump Mfg. Dept., Fairbanks, Morse Mfg. Co., and *for mail*, 816 Park Ave.

HOBART, Frank G. (1890), Chief Engr., Fairbanks, Morse Mfg. Co., and *for mail*, 1259 Chapin St.

McMULLEN, Vincent E. (Associate, 1907), Mech. Engr. in charge Experimental Wk., Fairbanks, Morse Mfg. Co., and *for mail*, 810 E. Grand Ave.

MITCHELL, Charles J. (1908), Ch. Draftsman, Fairbanks, Morse Mfg. Co., and *for mail*, 836 College Ave.

VAIL, Jesse A. (1909), Genl. Mgr., Fairbanks, Morse Mfg. Co.

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Corliss

MYERS, Cornelius T. (Associate, 1908), Asst. Secy. and Treas., Wisconsin Eng. Co., and 419 10th St., Racine.

SARGENT, Chas. E. (1891), Engr., Gas Engine Dept., Wisconsin Engine Co., and 843 College Ave., Racine.

Cudahy

BERNHARD, Richard (Junior, 1901), Ch. Engr., Mining, Crushing and Cement Mchy. Dept., Power & Mining Mchy. Co., and *for mail*, 632 Wentworth Ave., Milwaukee.

ROPER, Norman Brownell (1905), Engr. and Salesman, Power & Mining Mchy. Co., and 360 Park Pl., Milwaukee.

De Pere

BROWN, James Monroe (1900; 1906), Supt., Lyons Boiler Wks.

LYONS, James W. (1902), Pres., Lyons Boiler Wks.

Fond du Lac

KIPP, Alfred Ristine (1906), Mech. Supt., Soo Line, and *for mail*, 310 E. Division St.

Kenosha

HANSEN, T. H. C. (1905), Chicago Brass Co., and 720 Pomeroy St.

La Crosse

FUNK, Wm. Francis (1892; 1905), Secy., La Crosse Boiler Co., Gould and Mill Sts., and 1407 Main St.

HIRSHHEIMER, Harry Julius (1892; Associate, 1904), V. P., La Crosse Plow Co., and *for mail*, 131 S. 15th St.

Madison

BEEBE, Murray Chas. (Associate, 1904), Prof. Elec. Engrg., Univ. of Wis., and 211 Langdon St.

CHRISTIE, Alexander G. (Associate, 1907), Research Asst. in Steam Engrg., Univ. of Wis., and *for mail*, 1713 Monroe St.

HARGRAVE, Russell William (Junior, 1899), Gisholt Mch. Co., and *for mail*, 416 Castle Pl.

JOHNSON, Carl Albert (1901), Pres., Gisholt Machine Co.

JOHNSON, Hobart Stanley (1906), V. P. and Gen. Supt., Gisholt Machine Co.

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Madison (Continued)

MACK, John G. D. (1890), Prof. Mch. Design, College of Engrg., Univ. of Wis., and *for mail*, 110 E. Johnson St.

MEAD, Daniel W. (1908), Prof. Hyd. and Sanitary Engrg., Univ. of Wis., and *for mail*, 1015 University Ave.

REBER, Louis E. (1891), Director University Extension, Univ. of Wis., and 636 N. Frances St.

RICHARDS, William A. (Junior, 1903), 216 N. Carroll St.

RICHTER, Arthur Wm. (Junior, 1892), Prof. Expl. Engrg., Univ. of Wis., and *for mail*, 929 University Ave.

THOMAS Carl C. (1908), Prof. Steam and Gas Engrg., Univ. of Wis.

WHITE, John Culberton (Junior, 1906), Cons. Steam Engr., 745 E. Johnson St.

Mayville

BEAN, Irving McC. (Junior, 1903), Asst. Mgr., Northwestern Iron Co.

Milwaukee

ADAMS, Edward T. (1899), Mgr. and Ch. Engr., Gas and Mill Eng. Dept., Allis-Chalmers Co.

ALDRICH, J. Guy (Junior, 1903), Ch. Engr., Industrial Gas Power Co., 621 Caswell Block, and *for mail*, 618 Dover St.

ARNOLD, Egmont Benjamin (Junior, 1907), Cons. Engr., 23 Sentinel Bldg., and 462 Van Buren St.

BAKER, Chalice Whitmore (1905), Mech. Engr., Allis-Chalmers Co., and 273 Howell Ave.

BECK, Matthias A. (1886), 294 Greenbush St.

BOLLES, Frank G. (Associate, 1901), Commercial Engr., Allis-Chalmers Co., and Franksville.

BOSSERT, Chas. Philip (1892; 1901), Mech. Engr., Pfister & Vogel Leather Co., and *for mail*, 179 36th St.

CAPEN, Thomas W. (1883), Engr., Crushing and Cement Dept., Allis-Chalmers Co., and 418 28th St.

CHENEY, H. W. (1897; 1905), Engr. in charge, Elec. Detail Dept., Allis-Chalmers Co., and *for mail*, 121 31st St.

COLLES, Geo. Wetmore (1895; 1901), Cons., Elec. and Mech. Engr., and Patent Expert, 404-405 Alhambra Bldg.

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Milwaukee (Continued)

CONWAY, Geo. M. (1891), Cons. Mech. Engr., and Expert, Rm. 38, 204 Grand Ave.

DAVIDSON, Charles Jackson (1904), Ch. Engr. of P. P., The Milwaukee Elec. Ry. and Light Co., Genl. Supt., Milwaukee Central Heat Co., and 811 Shephard Ave.

DORNER, Frederick Harry (Junior, 1907), Mech. Engr., Bayley Mfg. Co., and *for mail*, 88 17th St.

DRAVO, Geo. P. (1899; 1906), Pres. and Treas., Power Improvement Co., 510 Enterprise Bldg., and 297 Farwell Ave.

HEIKEL, Daniel August (1899), Life Member; 545 Jackson St.

JOHNSON, Warren S. (1889), Pres., Johnson Service Co., 149 Michigan St.

KEITH, Robert R. (Junior, 1904), Asst. Genl. Supt., A. O. Smith Co., and *for mail*, Flat 1, 296 Oakland Ave.

LATHROP, William Frederic (Junior, 1905), Engr. of Tests, The Milwaukee Elec. Ry. & Ltg. Co., 315 Public Service Bldg., and 338 Greenbush St.

LORD, John E. (1904), Asst. Mgr., Sight Feed Oil Pump Co., and *for mail*, 902 Richards St.

McKEE, Robert A. (1908), Engr., Steam Turbine Dept., Allis-Chalmers Co.

MacLAREN, Malcolm Neill (1899), Milwaukee Coke & Gas Co., Colby & Abbot Bldg.

NORDBERG, Bruno Victor (1893), V. P. and Ch. Engr., Nordberg Mfg. Co., and *for mail*, 512 Logan Ave.

PATITZ, J. F. Max (1891; 1900), Cons. Mech. Engr., Allis-Chalmers Co., and *for mail*, 473 38th St.

PEDERSEN, Henrik Greger (Junior, 1904), Eng. Designer, Fred M. Prescott Steam Pump Co.

POWELL, William Henry (1908), Elec. Engr.-in-charge, Allis-Chalmers Co., and 173 Farwell Ave.

PRESCOTT, Fred M. (1901), Manager, 1905-1908; Pres., Fred M. Prescott Steam Pump Co., 60th and Greenfield Aves., and 609 Lake Drive.

ROBERTS, A. L. (1909), Designer and Mech. Engr., Pawling & Harnischfeger, and *for mail*, 221 Martin St.

ROTTER, Max (1899), Mech. Engr., Allis-Chalmers Co., and *for mail*, 2529 Grand Ave.

SANDO, Will J. (1899), Manager, 1908-11; Mgr., Pumping Eng. and Hydraulic Turbine Dept., Allis-Chalmers Co., and *for mail*, 430 Kane Pl.

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Milwaukee (Continued)

SCHULTE, Geo. Henry (1904), P. O. Box 205, and No. 6, Pasadena Flat, cor. Cass and Martin Sts.

SEARCH, Charles Edwin (1906), Asst. Mgr. Wks., Allis-Chalmers Co., and *for mail*, 529 Walker St.

SEDERHOLM, E. T. (1889), Asst. Ch. Engr., Nordberg Mfg. Co., and 2716 McKinley Blvd.

SHAW, Charles H. (Associate, 1906), 794 National Ave.

SHIPLEY, Grant B. (Associate, 1907), Ch. Engr., Mining Dept., Allis-Chalmers Co.

SHODRON, John Geo. (Junior, 1908), Cons. Engr. and Arch., 220 Burrell St.

SPRADO, Carl G. (1903), Engr. and Ch. Draftsman, Gas and Mill Eng. Dept., Allis-Chalmers Co., and *for mail*, 752 29th St.

TRIBE, James (1889), Allis-Chalmers Co., and *for mail*, 575 Murray Ave.

UIHLEIN, William B. (Junior, 1907), Asst. to Supt., Jos. Schlitz Brewing Co.

WARG, Robert (1903), Natl. Blower Wks., 17th St. and St. Paul Ave., and 291 Oakland Ave.

WEICKEL, Henry (1889), Ch. Draftsman, 38th and National Ave., and *for mail*, 347 23d Ave.

WETMORE, Charles P. (1901), Pres. and Mgr., Am. Adding Mch. Co., P. O. Box 1042, and *for mail*, 518 Aster St.

WORDEN, Euclid P. (1899; 1902), Ch. Engr., Fred M. Prescott Steam Pump Co., and 571 Summit Ave.

WYMAN, Arthur H. (Junior, 1909), Steam and Elec. Dept., Allis-Chalmers Co.

Monroe

CHURCHILL, William W. (1892).

Racine

HAMILTON, Clinton A. (1908), Genl. Mgr. and V. P., Wisconsin Eng. Co., and *for mail*, 1033 Lake Ave.

MacGREGOR, Wallace F. (Junior, 1901), Supt., Exper. Dept., J. I. Case Threshing Mch. Co., and 1434 Main St.

NORTON, Frederick Lee (Associate, 1904), Genl. Mgr., J. I. Case Threshing Mch. Co.

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South Milwaukee

COLEMAN, William W. (1908), 2d V. P. and Wks. Mgr., Bucyrus Co., and 337 Prospect Ave., Milwaukee.

FERRIS, Walter (1907), Asst. Ch. Engr., Bucyrus Co., and *for mail*, 710 Prospect Ave., Milwaukee.

KNOX, S. L. Griswold (1892; 1901), V. P. and Ch. Engr., Bucyrus Co., and *for mail*, 232 Biddle St., Milwaukee.

MILLER, John S. (1900; 1907), Mech. Engr., Estimator, Bucyrus Co., and *for mail*, P. O. Box 45.

ROYS, Lawrence (Junior, 1907), Asst. Engr., Estimating Dept., Bucyrus Co., and P. O. Box 793, also 861 1st Ave., Milwaukee.

WEHNER, Lewis (1901; 1907), Mech. Engr., Bucyrus Co., and *for mail*, University Club, Milwaukee.

West Allis

BLANKENHORN, George Stevens (Junior, 1906), Office of Cons. Mech. Engr., Allis-Chalmers Co., and *for mail*, 491 Jefferson St., Milwaukee.

McDEWELL, Horatio S. (Junior, 1908), Allis-Chalmers Co., and *for mail*, 6206 Greenfield Ave.

SMITH, L. P. C. (Junior, 1906), Draftsman, Gas Eng. Dept., Allis-Chalmers Co., and *for mail*, 455 69th Ave.

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FOREIGN COUNTRIES

AFRICA

Johannesburg, Transvaal, South Africa

BATEMAN, Edward L. (Associate, 1897), Mgr. for South Africa of Allis-Chalmers Co., P. O. Box 6659.

BEHR, Hans C. (1891), Cons. Mech. Engr., Consolidated Gold Fields of South Africa, Ltd., P. O. Box 1167.

BULKLEY, J. Norman (1902), Ch. Engr., United Engrg. Co., Ltd., Box 1082.

COOK, J. F. (1902), Cons. Mech. Engr., S. Neumann & Co., 76 Cullinan Bldg., and *for mail*, P. O. Box 485.

FARRAR, Edward (1907), Cons. Mech. Engr., Genl. Mining & Finance Corp., and *for mail*, Box 1242.

PARK, Walter E. (1903), Mgr., Fraser & Chalmers, Ltd., Box 619.

REUNERT, Theodore (1901), Engr., Reunert & Lenz, Engrs., Box 92, and care of Findlay, Durham & Brodie, 110 Cannon St., London, E. C., England.

ROBESON, Anthony Maurice (1895), Cons. Mech. Engr., H. Eckstein & Co., P. O. Box 149.

THURSTON, George H. (1902), Asst. Mech. Engr., Cons. Gold Fields of South Africa, Ltd., Box 1167.

VAUGHAN, John Alfred (1902), Ch. Ispr. Mchy., Box 1132.

Kimberly, Cape Colony, South Africa

WILLIAMS, Alpheus Fuller (1900), Genl. Mgr., De Beers Cons. Mines, Ltd., and 1 Park Road.

Nairobi, British East Africa

PENRUDDOCKE, J. H. (1889), Asst. Loco. Supt., Uganda Railway.

Port Elizabeth, South Africa

ALEXANDER, Arthur Thomson (Junior, 1905), Mgr., Alexander & Co., and P. O. Box 347.

Se Kondi, West Africa

REED, W. T. (1890), Loco. Supt., Gold Coast Govt. Ry., and *for mail*, 1 Enmore St., Putney, London, S. W., England.

AUSTRALIA

Brisbane

PALMER, Arthur C. H. (1900), Asst. Engr., Queensland Rwy., and *for mail*, Palmarosa, Hamilton.

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Castlemaine, Victoria

DAM, William Valdemar (1906), Asst. Genl. Mgr. and Engr., Thompson & Co., and *for mail*, "Kalimna," Hall St.

THOMPSON, David (1905), Mining and Cons. Engr., P. O. Box No. 9.

Melbourne, Victoria

GRAY, John Lamont (Associate, 1904), Gray Bros., Engrs. and Shipbuilders, and *for mail*, care of Ardlamont, 9 Esplanade, Williamstown.

NOYES, Henry (1899), Life Member; Noyes Bros., 153-7 William St., and Holmby, Malvern.

ROGERS, Charles Edward (Associate, 1898), Fraser & Chalmers, Ltd., Equitable Bldg.

SMITH, S. H. (Associate, 1907), Supt., North Melbourne Elec. Tramways & Lighting Co., Ltd., Mt. Alexander Road, Ascot Vale, and Clydehall, Harding and East Sts.

North Queensland

HARTILL-LAW, A. (1906), Phœnix Fdy. & Eng. Wks., Spence St., Cairns.

Sydney

PRICE, Norman I. (Junior, 1902), Australian Genl. Elec. Co., Union Bank Chambers, Pitt St.

AUSTRIA

Bohemia

KOTHNY, Gottdank Lebrecht (Junior, 1905), Ch. Engr., Skodawerke, A. G. Pilsen, and 80 Parkstrasse, Troppau.

Budapest, Austria-Hungary

FUCHS, Hugo (Associate, 1907), Cons. Engr., V. Lipot Blvd., 27.

WOLDENBERG, Izydor (Junior, 1903), Ingersoll-Rand Co., m.b.h. Ferervaryut, 11-13.

BELGIUM

Brussels

MATHOT, Rudolphe E. (1906), Cons. Engr. for Gas Engines and Power Plants, 14 Rue de la Braie.

SAHLIN, Axel (1893), Resident Dir., Julian Kennedy, Sahlin & Co., Ltd., Engrs., 52 Rue du Congrès, and 72 Ave. Michel Ange.

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Brussels (Continued)

VAN DER WILLIGEN, T. A. (1896; 1904), Continental Rep. of Humphreys & Glasgow (London), and *for mail*, 209 Chaussée d'Ixelles.

Liege

DWELSHAUVERS-DERY, V. (Honorary, 1886), Prof. Emeritus, Univ. of Liege, 4 Quai Marcellus.

HUBERT, Herman (1905), Genl. Inspector of Mines, Prof. Applied Mech. and Industrial Physics, Univ. of Liege, and Rue Fabry 68.

BRITISH WEST INDIES

Santo Domingo

JUNGHANS, Edward K. (1908), Supt. and Ch. Engr., Porvenir Sugar Co., Yngeio Porvenir, San Pedro de Macoris.

CANADA

Amherst, N. S.

ROBB, A. G. (1902), Genl. Supt., Robb Engrg. Co., Ltd., and Victoria St.

ROBB, D. W. (1888), Pres., Robb Engineering Co., Ltd.

Cobalt, Ontario

ROBBINS, Percy Arthur (Associate, 1901), Genl. Mgr., McKinley-Darragh Savage Mines.

Galt, Ontario

GOLDIE, Alexander R. (Junior, 1902), Mgr., Goldie & McCulloch Co., Ltd.

SPOTTON, Arthur Knowlson (Junior, 1906), Ch. Engr., Goldie & McCulloch Co., Ltd.

Glace Bay, Cape Breton

WHYTE, John S. (1902), Mech. Engr., Dominion Coal Co., Ltd.

Fraserville, Quebec

WARREN, Kenneth L. (1907), Cons. Engr.

Hamilton, Ontario

HAWKINS, Wm. Clark (Junior, 1891), Sec. and Genl. Mgr., Dominion Power & Transmission Co., Ltd., 347 Queen St., S.

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Kingston, Ontario

GILL, Lester W. (1908), Prof. Elec. and Mech. Engrg., Queen's Univ.

TANDY, Harry (1903), Supt., Canadian Loco. Wks.

WILLHOFFT, F. O. (Associate, 1905), Prof. Mech. Engrg., Queen's Univ., and *for mail*, 93 Wellington St.

London, Ontario

ANGUS, Robert (1891), Cons. Engr., 514 William St.

LEONARD, E. Ibbotson (Junior, 1906), care E. Leonard & Sons, 602 Queens Ave.

Mispec, N. B.

ROWE, George F. (1908), Genl. Supt., St. John Pulp & Paper Co.

Montreal, Quebec

ATWOOD, William S. (1908), Mech. Engr., Dominion Car & Fdy. Co., Ltd., and 225 Metcalf Ave.

BROWN, William Clinton (1896), Cons. Engr., 512 William St., and *for mail*, Prescott, Ontario.

DURLEY, Richard John (1899), Prof. Mech. Engrg., McGill University, and 20 Summerhill Ave.

FARMER, John T. (Junior, 1902), Mech. and Hydraulic Engr., 427 Coristine Bldg., and Mt. Stephen Apts., Westmount.

GLASGOW, Carr L. (Junior, 1904), Dist. Engr., Allis-Chalmers-Bullock, Ltd., and 250 W. 93d St., New York, N. Y.

HARDING, Frank Welland (1896), Genl. Mech. Supt., The Canadian Rubber Co. of Montreal, Ltd., Notre Dame St. and Papineau Ave.

JAQUAYS, Homer Morton (1899; 1903), Montreal Rolling Mill Co., 3106 Notre Dame St., and *for mail*, 11 Lorne Ave.

LANE, Frederick (1906), Supt., Jenkins Bros., Ltd., St. Remi St., and 1 Benton Ave., Westmount.

LARKIN, A. C. (1895; 1905), Asst. Mgr. for Canada, Babcock & Wilcox, Ltd., N. Y. Life Bldg.

OWENS, Robert Bowie (Associate, 1892), Prof. Elec. Engrg., McGill Univ., and 210 Milton St.

REEDER, Nathaniel S., Jr. (1902; 1907), Genl. Mgr., Canada Car Co., Ltd.

RIDDLE, Howard Sterling (1905), Wks. Mgr., Jeffrey Mfg. Co.

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Montreal, Quebec (Continued)

RITCHIE, Francis P. (Associate, 1908), Shop Supt., Northern Elec. & Mfg. Co., Notre Dame and Guy Sts., and 32 Sussex Ave.

ROBINSON, A. W. (1883), Manager, 1896-1899; Life Member; Cons. Mech. Engr., 14 Phillips Sq.

VAUGHAN, Henry H. (1899), Asst. to V. P., Canadian Pacific Ry., and 4 Weredale Park.

New Glasgow, N. S.

MATHESON, Wm. G. (1891), Mgr., I. Matheson & Co., Ltd.

Ottawa, Ontario

HASSAN, R. D. (1903), Chief Engr., The Int. & Western Canada Portland Cement Co., and *for mail*, 56 Somerset St., also Exshaw, Alta.

TAGGE, Arthur C. (1901), Engr., Internatl. Portland Cement Co.

Quebec

DAUCHY, Samuel Edwin (Junior, 1903), Ross Rifle Co.

St. Catharines, Ontario

HAMILTON, Ralph B. (1907), Genl. Mgr., Secy. and Treas., The Packard Elec. Co., Ltd., Secy. and Managing Direc., Reo Motor Car Co. of Can., Ltd., and 15 Welland Ave.

Sault Ste. Marie, Ontario

CLERGUE, Bertrand J. (Associate, 1907), Cons. Engr., P. O. Box 997.

Sherbrooke, Quebec

HAIGHT, Harry Vercoe (1899; 1907), Ch. Engr., Canadian Rand Drill Co., Ltd., and *for mail*, 30 Portland Ave.

SANGSTER, Andrew (1900; 1908), Supt., Canadian Rand Drill Co., Ltd., and *for mail*, 84 Drummond St.

Sydney, Cape Breton

MITCHELL, William Clark (1901), Genl. Supt., Dominion Iron & Steel Co., Ltd.

Toronto, Ontario

ANGUS, Robert W. (1901; 1908), Prof. Mech. Engrg., Faculty Applied Science and Engrg., Univ. of Toronto.

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Toronto (Continued)

HAMILTON, Chester B., Jr. (Junior, 1909), Draftsman, 43 Madison Ave.

SOWDEN, Parkin T. (Junior, 1908), Supt., Standard Silver Co., and 80 College St.

WATTS, George W. (1903; 1904), Wks. Mgr., Canadian Genl. Elec. Co., 212 King St., and *for mail*, 1 Beaumont Road.

Vancouver, B. C.

MILNE, James (1907), Cons. Engr., 23 7th Ave., W.

CHINA

Lin-Tcheng Sien, North China

KWANG, Kwong Yung (1899), Life Member; Dir. and Engr., Lincheng Mines, Lu-Han Ry., via Peking.

Tiensin

ADAMS, Walter H. (Junior, 1908), Prof. Mech. Engrg., Imperial Pei-Yang Univ.

Tongshau

SZE, S. C. Thomas (Junior, 1905), Imperial Rwys. of North China.

CUBA

Ensenada De Mora

STUNTZ, J. E. (Junior, 1903), Ch. Engr., Cape Cruz Co.

Havana

BILLINGS, A. W. K. (1909), Cons. Engr., P. O. Box 883.

ESTRADA, E. Duque (1893), Ch. Engr., Div. of Shops and Mchy., Antiguo Arsenal.

ESTRADA, Rafael (1904), Mech. Engr., Calzada, 78 B, Vedado.

Matanzas

POLLEDO, Y. (Junior, 1888), Manzaneda 16.

ENGLAND

Bilston, Staffordshire

HARRIS, James Wilfrid (1905), Engr., Laburnums.

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Brigg, Lincolnshire

DARBY, John Henry (1901), Civil Engr., Manor House.

Coventry

HILDRETH, W. A. (1902), Ch. of Small Tool Dept., Alfred Herbert, Ltd., and *for mail*, Milton House, Earlsdon.

VERNON, Percy Venables (1906), Ch. Designer, Alfred Herbert, Ltd., Machine Tool Makers, and *for mail*, "Penvorn," Manor Road.

Erith, Kent

SANCTON, Edward K. (1884), Genl. Mgr., Erith Wks., Fraser & Chalmers, Ltd., and "Rivelyn."

Gattey, Cheshire

LISTER, Robt. Ramsbottom (1894), Life Member; Proprietor, The Greenbank Steam Laundry, and *for mail*, 11 Athol Rd., Alexandra Park, Manchester.

Hyde, Cheshire

ADAMSON, Daniel (1901), Jos. Adamson & Co., and *for mail*, 211 Two Trees Lane, Denton, Lancashire.

Ightham, Kent

BELL, James Richard (1895), Cons. Engr., "Hazeldene."

Leeds

RAPLEY, Frederick Harvey (1905), Prudential Bldg., Park Row, and 3 Kent Rd., Harrogate.

Lincoln

ORCUTT, Harry Fred Lee (1900), Managing Director, Clayton & Shuttleworth, Ltd., Lincoln and Hillside, South Park.

London

BALDWIN, Oscar H. (1889), London Dist. Mgr., British Westinghouse Elec. & Mfg. Co., Ltd.

BERG, Hart O. (1898; 1903), Engr., Carlton House, 11 D. Regent St., S. W.

BLAND, John P. (1901), Printer and Ch. Engr., The Times, and *for mail*, 32 Atherfold Rd., Clapham, S. W.

CARROLL, Lafayette D. (1888), Life Member; Mech. Engr., care Humphreys & Glasgow, 38 Victoria St., S. W.

CLOUD, John W. (1880), 82 York Road, King's Cross, N.

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London (Continued)

DOWNE, Henry S. (1886), Managing Dir., Natl. Radiator Co., Ltd., 439-441 Oxford St., W., and 12 Belsize Park, N. W.

FAIRBANKS, Robert Noyes (Associate, 1895), Mgr., The Fairbanks Co., 78-80 City Rd., E. C.

FOX, Sir Douglas (Honorary, 1900), Head of Firm, Messrs. Sir Douglas Fox and Partners, Cons. Civil Engrs., Cross Keys House, 56 Moorgate St., E. C., and Kippington Grange, Sevenoaks, Kent.

GARRATT, Ernest Albert (1907), Ch. Asst., Messrs. Jacobs & Barringer, 78 Gracechurch St.

GLASGOW, Arthur Graham (1892), Life Member; Humphreys & Glasgow, 36-38 Victoria St., S. W.

HADFIELD, Sir Robert Abbott (1907), Chairman and Managing Dir., Hadfield Steel Fdy. Co., Ltd., and *for mail*, Parkhead House, Sheffield, also 28 Hertford St., Mayfair, W.

HAYWARD, Fred H. (1889), 96-98 Leadenhall St., E. C., and 126 Liberty St., New York, N. Y.

HEAP, Douglas T. (1906), Head Ch. Mech. Engrs. Dept., Royal Arsenal, Woolwich, S. E.

KNIGHT, Chas. A. (1884), Babcock & Wilcox, Ltd., Oriel House, Fartingdon St., E. C.

McELROY, Jos. A. (1895), Dir., Macartney, McElroy & Co., Ltd., Caxton House, S. W.

MAIR-RUMLEY, John Geo. (1892), Messrs. Gwynnes, Ltd., 81 Cannon St., E. C.

PARSHALL, Horace Field (1893), Cons. Engr., Salisbury House, London Wall, E. C.

REDWOOD, Iltyd I. (1890; 1903), Genl. Wks. Mgr., Borax Consolidated, Ltd., 16 Eastcheap, E. C., and *for mail*, 21 Erith Road, Belvedere, Kent.

THORPE, Robt. H. (1897), Engr. and Agt., Mansion House Bldg., 4 Queen Victoria St., E. C., and "The Birches," Sevenoaks, Kent.

THUMAN, Frederic (1900), Life Member; Ch. Engr., Humphreys & Glasgow, 36-38 Victoria St., Westminster, S. W., and 68 South Audley St., W.

TYLER, Willard Curtis (Associate, 1908), European Mgr., Keasby & Mattison Co., 653 Caxton House, (Sanctuary), Westminster, S. W.

UNWIN, William Cawthorne (Honorary, 1898), 29 Palace Gate, Kensington.

WHITE, Sir William H., K. C. B. (Honorary, 1900), Naval Arch., 8 Victoria St., Westminster, and Cedarcroft, Putney Heath, S. W.

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Manchester

BROWN, A. G. (1884), Life Member; 39 Blackfriars, and *for mail*, Ellerslie, Oswald Road, Chorlton-cum-Hardy.

LANGE, Philip A. (1896), Genl. Mgr. of Wks., British Westinghouse Elec. & Mfg. Co., Ltd., Trafford Park.

RENOLD, Charles Garonne (Junior, 1906), Dir., Hans Renold, Ltd., Progress Wks., and *for mail*, Priestnall Hey, Heaton Mersey.

TRUBE, G. A. (1900), Sales Mgr. Eng. Dept., British Westinghouse Elec. & Mfg. Co., Ltd., Trafford Park, and The Uplands, Bowdon, Cheshire.

VON AMMON, Siegfried (1904; 1905), Mech. Engr., British Westinghouse Elec. & Mfg. Co., Trafford Park and *for mail*, 4 Beechfield, Bowdon.

Newark-on-Trent, Nottinghamshire

BLENCOWE, John (1900), Mgr., James Simpson & Co., Ltd., and *for mail*, care of A. L. Raub, W. Lafayette St., College Hill, Easton, Pa.

Parton, Whitehaven

BENTLEY, Harry (1907), Managing Dir., Lowca Engrg. Co., Ltd., and *for mail*, Beach House.

St. Annes-on-the-Sea

MACBETH, Colin (Associate, 1907), Dunallan.

FINLAND

Patomaki

KAPY, Artturi A. (Junior, 1903), M. E., Govt. Expert for Farming Mchy., Estate Lahti.

FRANCE

Le Havre

SCHMID, Albert (1890), Director Société Anonyme Westinghouse, 2, Blvd. Sadi Carnot, and *for mail*, 3, Rue Vacquerie, Sainte Adresse.

Paris

BENÉT, Laurence V. (1892), Administrateur-Directeur, Société Anonyme des Anciens Etablissements Hotchkiss & Cie., 21, Rue Royale.

EIFFEL, Gustave (Honorary, 1889), 1, Rue Rabelais.

FRY, Lawford H. (1905), Tech. Rep. in Europe of Baldwin Loco. Wks., 56, Blvd. Haussmann.

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Paris (Continued)

GARFIELD, Alexander S. (1907), Ch. Engr., Cie Francaise pour l'Exploitation des Procédes Thomson-Houston and *for mail*, 67, Ave. de Malakoff.

LÉAUTÉ, Henry (Honorary, 1891), Member Academy of Science, 25, Rue 4 de Septembre, and *for mail*, Blvd. de Courcelles, 20.

MIX, Edgar W. (1903), Ch. Engr., Ateliers Thomson-Houston, 219 Rue de Vaugirard, and *for mail*, 12 Blvd. des Invalides.

ROUX, Paul (Associate, 1890), 54, Blvd. du Temple, and *for mail*, 4, Rue Herran.

GERMANY

Aachen

LANGER, Paul (1906), Prof. Tech., Hochschule.

WALLICHS, Adolph O. (1908), Prof. Tech., Hochschule, and *for mail*, Nizze-Allee, 65.

Berlin

ARNOLD, Otto, Jr. (Junior, 1905), Mgr., Friedrich Stolzenberg & Co., G. m. b. H., Reinickendorf, West.

GILLAN, Howard A. (Junior, 1907), Accumulatoren Fabrik A. G., Luisenstr. 35, N. W. 6.

NEUHAUS, Fritz A. E. (1898; 1906), Ch. Engr, and Genl. Supt., A. Borsig, Tegel, and Olivaerplatz 7, Charlottenburg.

SCHLESINGER, Georg (1905), Prof. of Engrg., Tech. H. S., and *for mail*, Xanknerstrasse 15a, 1st floor, Wilmersdorf.

Charlottenburg

STUMPF, Johann (1896), Prof. Mech. Engrg., Tech. Hoschschule, and Kûrfurstendamm, 33, Berlin, W.

Coblenz

OSWALD, William (1899), Commerzienrath, Bergassessor a. D., Rheinzollstrasse 6, and Rheinanlagen 1 B.

Danzig, Langfuhr

SCHULZE-PILLOT, Gerhard (1903), Prof. Mech. Engrg., Royal Tech. Univ., and 4 Johannisberg.

Hamburg

PARISH, Wm. F., Jr. (1902; 1904), Ch. Engr., Deutsche Vacuum Oil Co.

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HOLLAND

Amsterdam

ALTA, Lucas Nicholas (1896), Mech. Engr. and Member of Firm, L. N. Alta & Co., 35 Binnenkant, and *for mail*, Breedeweg 26, Watergraafsmeer.

INDIA

Calcutta

PULMAN, Thomas Chas. (1908), 10 Clive St.

Fort Bombay

FOLGER-OSBORNE, G. F. (1903), care Cox & Co., Bankers.

Madras

SARENGAPANI, T. S. (Junior, 1903), Head Draftsman, P. W. D., Bezwada, and *for mail*, Karantattamkudy, Tanjore.

ITALY

Brescia

MARZOLI, Luigi (Junior, 1908), Genl. Mgr. and Supt., Fratelli Marzoli & Co., Palazzola, s/Oglio.

JAPAN

Hizen

TAKEO, Toshisuke (1908), Genl. Mgr., Karatau Iron Wks., Nishikaratsu.

Kobe

KUWADA, Gompei (1900), Mech. Engr., Supt., Mch. Shops, Kawasaki Dock Yard Co.

Tokio

FRANCIS, Charles A. (Associate, 1906), Industrial Engr., 21 Shio-cho Itchome, Yotsuya.

KROTO, George (1908), Ch. Mech. Engr., Takata & Co., No. 1, Yurakucho Ichome.

SAKATA, S. (1891), Prof. Mech. Engrg., Tokio Tech. College, Asakusa, and *for mail*, 24 Nakacho, Usvigome.

Yokohama

BRENNER, Wm. H. (1897), Managing Dir., Zemma Wks., Ltd., and *for mail*, Mgr., The British Columbia Mfg. Co., also Box 154, New Westminster, B. C., Canada.

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Yokohama (Continued)

GAUSE, Fred Taylor (1893), Genl. Mgr. for the Far East, Standard Oil Co. of New York, Thompson & Bedford Dept.

HAY, Alex. Stanley (Junior, 1891), Cons. Mech. Engr., P. O. Box 338.

THURN, Theodore (Junior, 1904), care of J. R. Geary, Yokohama United Club.

MEXICO

Chihuahua

LAIRD, Wilbur Goodspeed (Associate, 1906), Candelaria Mining Co., San Pedro, and 728 E. 10th Ave., Denver, Colo.

LAWRENCE, Schuyler (1902), Cons. Min. Engr., P. O. Box 3, and No. 116, Calle 39.

Guadalajara

FUCHS, Ernesto (1906), Engr. and Arch., Box 334, and 1402 Calle de Hidalgo.

MORA, Rafael de la (Junior, 1897), Mech. and Hyd. Engr., Hidalgo 654.

Mexico City

ANDERSON, Emanuel (Associate, 1907), Apartado 856, D. F.

AROZARENA, Rafael M. de (1885), Life Member; Engr. and Contr., Calle de las Estaciones No. 44.

BLOOMBERG, Jonas H. (1903), Cons. Engr., Avenida Del Cinco De Mayo No. 32, and *for mail*, Primera de Orizaba No. 11, D. F.

CHAMBERS, Norman C. (Junior, 1905), Shop Engr., Natl. Iron & Steel Wks., S. A. Apartado 1031, and 3a Calle Roma No. 41 Letra C., D. F.

JOHNSTONE, Francis W. (1909), Contr. Mech. Engr., 5a Liverpool No. 75, D. F.

SMITH, Wm. W. (1909), Mech. Engr., Natl. Iron & Steel Wks., Apartado 1031, D. F.

Oaxaca

CARSTENS, Alexander Bismarck (1906), Apartado Postal 74.

Saltillo, Coahuila

VANDEMOER, John (Associate, 1904), Engr., Mazapel Copper Co., Apartado 64.

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Zamora, Michoacan

APPLETON, Wm. Day (Junior, 1905), Apartado 23.

KEAN, A. J. A. (1908), Supt., Guanajuato Power & Elec Co., Apartado 23.

NORWAY

Hamar

JESSEN, Jacob (1892), Mech. Engr., Statens Jernbaner.

PANAMA

Balboa, Canal Zone

MACFARLANE, James (1908), Supt. Dredging, Isthmian Canal Com.

Culebra, Canal Zone

BANTA, Earle Jackson (1907), Mech. Engr., Isthmian Canal Com., and the Panama R. R. and S. S. Lines.

HARLAN, Orla K. (Junior, 1904), Dept. Engrg. and Constr.

LEE, Ernest Eugene (Associate, 1908), Asst. Engr., Isthmian Canal Com.

ROBINSON, Arthur L. (1908), Elec. Engr., Isthmian Canal Com.

Gorgona

CUMMINGS, Edgar C. (1906), Master Mechanic, Gorgona Shops.

RUSSIA

Podolsk, Moscow Government

DIXON, Walter Frank (1889; 1894), Mgr., Singer Mfg. Co.'s Wks.

St. Petersburg

SMITH, Wm. Edward (1900), Genl. Mgr., Société Anonyme Westinghouse, 2, Priloukskaia, and *for mail,* Strelna.

WEINBERG, Semen G. (1901; 1907), Mining Engr., Mgr., Worthington Pumping Eng. Co., and *for mail,* P. O. Box 65.

SCOTLAND

Glasgow

ARROL, Sir Wm. (Honorary, 1895), Engr., Dalmarnock Iron Wks., 85 Preston St., N. B., and Seafield, Ayr.

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Greenock

CAIRD, Robert (1884), Managing Director, Caird & Co., Ltd., and *for mail*, 56 Esplanade.

Singer, Clydebank

PARK, Franklin A. (1900), Mgr., Singer Mfg. Co., Ltd., and Northwood, Helensburgh.

SOUTH AMERICA

Buenos Aires, Argentine Republic

PUDAN, Herbert Whatmough (Junior, 1899), Cons. Mech. Engr., Moreno 452.

Chorrillos, Peru

D'ORNELLAS, T. V. (Associate, 1907), Elec. Cons. Engr., Peruvian Govt., Calle de Lima, 15.

Lima, Peru

KENYON, Alfred Lewis (1904), Ch. Engr., Empresas Electricas Asociadas, Box 695, and 452 S. Lincoln St., Denver, Colo.

MARQUINA, Louis G. (1906), Engr., Peruvian Corporation, Ltd., and 520 Plaza Bolognesi.

MARTINTO, Pedro (Associate, 1901), Apartado 146.

WAGNER, Emilio F. (1891), Engr., Coca 76.

Rio de Janeiro, Brazil

BARBOZA, Arthur S. (1906), Rua Senador Pompeu 268, E. F. C. B.

PEARSON, Walter Ambrose (1907), Rio de Janeiro Tramway, Light & Power Co., Ltd., Avenida, Central, 76.

TREGELLES, Henry (1888), Norton Megaw & Co., Ltd.

Sao Paulo, Brazil

HILLMAN, Cecil Robert (1899), Asst. Loco. Supt., Central Office, Sao Paulo Railway Co.

WALMSLEY, W. N. (1907), Genl. Mgr., Sao Paulo Tramway, Light & Power Co., Ltd.

SWEDEN

Falun

HAMMARBERG, Arndt L. (1901), Ch. Engr., Stora Kopparbergs Bergslag.

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Stockholm

ANGSTROM, Carl (1883), Cons. Engr., Torstensonsgatan 6, Ö.

BERG, P. T. (1890), Mech. Engr., No. 1, Strandvagen.

SUNSTROM, Karl J. (1884), Cons. Engr., Odengaten 92.

SWITZERLAND

Faido Sta.

LODETTI, Frank Emil (Junior, 1902).

Winterthur

SULZER, Jacob Carl (1891), Sulzer Bros.

Zurich

SPOERRI, Henry (1907), Mech. Cons. Engr., Spoerri & Co., Bergstrasse 76.

PRESENT ADDRESS UNKNOWN

BOLAND, Frederick A. (1902).

CLEMENS, Charles William (1905).

JOHNSTON, Chas. R. (1897).

LUCAS, Henry van Noye, Jr. (Junior, 1905).

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1909

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Secretary, Geo. A. Orrok

Gas Power Executive Committee

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Gas Power Membership Committee

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D. T. MacLeod
V. E. McMullen
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GAS POWER SECTION

ARKANSAS

Fayetteville

WILSON, Birton N. (1908), Prof. Mech. Engrg., Univ. of Ark., and *for mail*, 241 College Ave.

CALIFORNIA

Berkeley

RALSTON, Louis C. (Affiliate, 1909), 2613 Channing Way.

Los Angeles

THOMPSON, Wm. K. (Affiliate, 1909), Secy., West. Gas Eng. Co., 908 N. Main St., and Hollywood.

San Francisco

AUE, Jos. E. (1908), Pacific Gas & Elec. Co., Bayshore Dist.

PERCY, Earle N. (1909), Engr., Imperial Gas. Eng. Co., and *for mail*, 3570 Clay St.

CONNECTICUT

Hartford

LOOMIS, Burdett, Jr. (1908), Conn. Mut. Bldg.

New Britain

BONNER, William T. (1908), Mech. Engr., Am. Hdw. Corp., and *for mail*, 20 S. High St.

New London

HASBROUCK, Stephen A. (Affiliate, 1908), Mech. Engr., 177 Willetts Ave.

South Norwalk

JENNINGS, Irving Callender (1908), Nash Engrg. Co., 40 Water St., and *for mail*, 50 West St.

Waterbury

THOMPSON, Hugh L. (1908).

Willimantic

WALDO, Gerald (Affiliate, 1908), R. F. D. No. 2.

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DISTRICT OF COLUMBIA

Washington

AYRES, Gustav (1909), Pat. Atty. and Cons. Engr., 1110 F St., N. W.

JOHNSON, Arthur E. (1908), Designer, Ordnance Office, War Dept., and *for mail*, 1514 Q St., N. W.

METZ, Walter R. (1909), Supt. of Bldgs., U. S. Govt. Ptg. Office, and *for mail*, 211 A St., N. E.

ILLINOIS

Chicago

BAEHR, William Alfred (1908), 1943 Commercial Natl. Bank Bldg.

BEMENT, A. (1908), Cons. Min. and Mech. Engr., 2114 Fisher Bldg.

COES, Harold V. O. (1908), Liquid Carbonic Co., Michigan Ave.

JONES, Hiram W. (Affiliate, 1908), Supt., Gas Eng. Dept., People's Gas Light & Coke Co., 157 Michigan Ave., and 2248 N. Harding Ave.

LEA, Henry I. (1908), Cons. and Constr. Gas Engr., 616 Rookery Bldg.

LYMAN, James (1909), Engr., Western Dist., Genl. Elec. Co., 1047 Monadnock Bldg., and 1308 Maple Ave., Evanston.

MacFARLAND, Helon Brooks (1908), Cons. Engr., 358 Dearborn St., and *for mail*, 5329 Kimbark Ave.

RICE, Arthur L. (1908), Managing Edit., The Practical Engineer, Consulting on Power Plant Engrg., 355 Dearborn St.

SNOW, T. W. (Affiliate, 1908), Pres., Otto Gas Eng. Wks., 355 Dearborn St., and Batavia.

SOUTHWORTH, Martin O. (1909), Elec. Engr., Fairbanks, Morse & Co., 481 Wabash Ave., and *for mail*, Hotel Windemere.

UNGER, John S. (1909), Cons. Engr., 613 N. Y. Life Bldg., and *for mail*, 383 Evanston Ave.

East Moline

FULLER, Edgar H. (Affiliate, 1909), Sales Mgr., Root & Van Dervoort Engrg. Co., and 916 19th St., Moline.

ROOT, Orlando J. (1908), Secy., Root & Van Dervoort Engrg. Co., and Moline Auto. Co., and 616 24th St., Moline.

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East Moline (Continued)

SOVERHILL, Harvey A. (Affiliate, 1908), Supt., Root & Van Dervoort Engrg. Co., and 623 23d St., Moline.

Rockford

CORMACK, George, Jr. (Affiliate, 1908), V. P. and Designer, Rockford Eng. Wks.

South Chicago

FREYN, Heinrich Josef (1908), M. E., Asst. Engr. of Constr., Illinois Steel Co., and 4830 Madison Ave., Chicago.

Sterling

HANSON, George (Affiliate, 1908), Supt., Charter Gas Eng. Co.

INDIANA

Gary

ENGLISH, Harry K. (1909), Box 688.

Lafayette

BENJAMIN, Chas. Henry (1908), Dean Sch. of Engrg., Purdue Univ., and 629 Univ. St.

COLE, Arthur W. (1909), Asst. Prof. Mech. Engrg., Purdue Univ., and *for mail*, 224 Waldron St., West Lafayette.

LUDY, Llewellyn V. (1908), Prof. Mech. Engrg., Purdue Univ., and 229 Univ. St.

MUNRO, George W. (Affiliate, 1909), Purdue Univ.

YOUNG, Gilbert A. (1908), Asst. Prof. Mech. Engrg., Purdue Univ., and *for mail*, 409 Univ. Ave., W. Lafayette.

La Porte

ZIMMERMAN, Oliver B. (1908), Mech. Engr. and Ch. Draftsman, M. Rumely Co., and *for mail*, 1204 Clay St.

Peru

BURTON, Chas. G. (Affiliate, 1908), Sales Mgr., Model Gas Eng. Wks.

MARYLAND

Sparrows Point

JUMP, Edmund P. (1909), Md. Steel Co.

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Washington Grove

BUCKLER, Albert H. (1909).

MASSACHUSETTS

Boston

ANDREW, James D. (1909), Supt. of Power Stations, Boston Elevated Ry. Co., 439 Albany St.

GURNEY, Herbert J. (Affiliate, 1908), Bldg. Constr., and *for mail*, 61 Brook St., Wollaston.

MOULTROP, Irving E. (1908), Manager, 1908-1911; Mech. Engr., Edison Elec. Ill. Co. of Boston, 39 Boylston St., and 812 Blue Hill Ave., Dorchester.

PARKER, Charles H. (1909), Asst. Supt., Generating Dept., Boston Edison Co., 3 Head Pl., and 260 Clarendon St.

WHITING, Charles W. (1909), Cons. Engr., 33 Broad St., and 62 Kirkland St., Cambridge.

Cambridge

HOPEWELL, Charles F. (Affiliate, 1908), Hopewell Bros., Mfrs., and *for mail*, 273 Waverly Ave., Newton.

MARKS, Lionel S. (1908), Asst. Prof. Mech. Engrg., Harvard Univ., and *for mail*, 88 Lake View Ave.

Dorchester

DOW, Benjamin W. (Affiliate, 1909), 7 Standish St.

East Boston

ROBINSON, Edward P. (1909), Supt., Atlantic Wks., 80 Border St.

Holyoke

NEWCOMB, Robert E. (1908), M. E., Deane Steam Pump Co., and 57 Fairfield Ave.

Medford

PLATTS, C. Arthur (Affiliate, 1908), Ch. Engr., Medford & Somerville Producer Gas Stas., B. E. Ry. Co., and *for mail*, 399 Salem St.

New Bedford

STETSON, George R. (1908), Pres. and Genl. Mgr., New Bedford Gas & Edison Light Co., 125 Middle St., and 7 Anthony St.

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Hyde Park

SPARROW, Ernest P. (1908), B. F. Sturtevant Co., and *for mail*, 18 Gleason St.

Worcester

FAIRFIELD, Howard P. (1909), Instr., Worcester Poly. Inst., and *for mail*, 25 John St.

GALLUP, David Lamprey (Affiliate, 1908), Instr. in Mech. Engrg., Worcester Poly. Inst.

MORDEN, Charles W. (Affiliate, 1909), 206 West St.

ROCKWOOD, George I. (1908), Cons. Engr., 62 Summer St.

MICHIGAN

Ann Arbor

BULMER, Wm. Carr (Affiliate, 1909), 525 Division Ave.

BURSLEY, Joseph Aldrich (1908), Instr. in Mech. Engrg., Univ. of Mich., and *for mail*, 2515 Fairfield Ave., Fort Wayne, Ind.

Detroit

MASON, Frederick H. (1908), Specialist in Feed Water Purification and Heating Power Plant Specialties, Brick and Concrete Chimney Constr., 612 Moffat Bldg., and 53 Seward Ave.

TREAT, Charles Henry (1908), Am. Blower Co., and *for mail*, 98 Piquette Ave., E.

WALKER, Fredk. Wiley (1909), V. P. and Mech. Engr., Comstock-Haight-Walker Co., 1018-1020 Ford Bldg., and *for mail*, Cedarburg, Ozankee Co., Wis.

East Lansing

POLSON, Joseph A. (1908), Asst. Prof. in Mech. Engrg., Mich. Agricultural College, P. O. Box 166.

Hillsdale

LOOMIS, Malcolm F. (Affiliate, 1908), Sales Mgr. and Supt., Alamo Mfg. Co.

Lansing

BATES, Madison F. (Affiliate, 1908), Mech. Engr., Bates & Edmonds Motor Co., and 727 Washtenau St., W.

HARRINGTON, Norman T. (1908), Ch. Engr. and Factory Mgr., Olds Gas Power Co., 700 Townsend St.

SEAGER, James B. (1908), Genl. Mgr., Olds Gas Power Co.

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Lansing (Continued)

SEAGER, Schuyler F. (Affiliate, 1909), Secy. and Treas., Olds Gas Power Co.

MINNESOTA

Duluth

FULLER, Floid M. (1908), Production Engr., Marshall Wells Hdw. Co., and Y. M. C. A.

Minneapolis

EDDY, H. T. (Affiliate, 1908), Dean of Graduate Sch. and Prof. Math. and Mech., Univ. of Minn., and *for mail*, 916 S.E. 6th St.

GILLETTE, Ralph P. (Affiliate, 1908), Mgr. Mech. Sales and Secy., Minneapolis Steel & Mchy. Co.

SHOOP, Roy Bassett (Affiliate, 1908), Draftsman, Minneapolis Steel & Mchy Co., and *for mail*, 3417 Aldrich Ave., S.

MISSOURI

Kansas City

BENDIT, Louis (1908), K. C. Sales Mgr., 504 N. Y. Life Bldg., and *for mail*, 134 W. Sea Ave., Independence.

St. Louis

LAIRD, John A. (1908), Cons. Engr., Holman & Laird, 1324 Chemical Bldg., and 4965 McPherson Ave.

MORRISON, Herbert H. (1908), Cons. Engr., Syndicate Trust Bldg.

OHLE, Ernest L. (1908), Washington Univ.

PARKER, Lewis C. (Affiliate, 1908), Designer and Builder of Gas Producers, 2700 N. 9th St.

PETERS, Edward (Affiliate, 1908), 4042 Olive St.

VOSE, Fred Hale (1909), Asst. Prof. Mech. Engrg., Washington Univ., and 1382a Minerva Ave.

NEBRASKA

Lincoln

RICHARDS, Charles Russ (1908), Dean of Engrg. and Prof. Mech. Engrg., Univ. of Neb., and 1803 A St.

NEW JERSEY

Alden, Union Co.

MACNEILL, M. B. (Affiliate, 1909), Hyd. Engr., Watson-Stillman Co., and 15 E. North Ave., Cranford.

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Camden

LUMMIS, Charles W. (Associate, 1907), Mech. Engr., Camden Iron Wks., and *for mail*, 520 N. 2d St.

MACLEOD, Daniel T. (1908), Asst. Engr., Am. Coke & Gas Constr. Co., 2d and Cherry Sts., and *for mail*, 30 E. Cedar Ave., Merchantsville.

East Newark

HORSTMANN, Henry J. (1909), Mech. Engr., F. W. Horstmann Co., 408-10 John St., and 240 Ridge St., Newark.

East Orange

THULLEN, L. H. (1908), Mech. and Elec. Engr., 96 William St.

Elizabeth

HAYWARD, Henry S., Jr. (1909), 60 North Ave.

Harrison

BIRD, John D. (1909), Asst. Genl. Mgr., H. R. Worthington, and *for mail*, 168 S. Arlington Ave., East Orange.

Hoboken

PRYOR, Frederick L. (1909), Prof. Exp. Engrg., Stevens Inst. of Tech., and 421 Fourth Ave., Newark.

SHOUDY, Wm. Allen (1908), Asst. Prof. Exper. Engrg., Stevens Inst. of Tech.

VAN PATTEN, William E. (Affiliate, 1909), Engr., Elec. Dept., D. L. & W. R. R., Hoboken Depot.

Jersey City

SAGE, Darrow, (Affiliate, 1908), Ch. Engr., J. C. Power House, Hudson Manhattan R. R. Co., Washington and 1st Sts.

Newark

OESTERREICHER, Sandor Ignatius (Affiliate, 1908), Elec. Draftsman, 342 High St.

VERKOUTEREN, A. J. (Affiliate, 1908), Cons. Engr., 35 Richelieu Terrace.

Passaic

SCHLACHTER, Carl H. (1909), Superintending Engr., Botany Worsted Mills, and *for mail*, 266 Harrison St.

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Trenton

HUTTINGER, Wm. R. (1908), Supt. Mch. Shop, Trenton Malleable Iron Co., and *for mail*, 310 Pine St., Beverly.

NEW YORK

Binghamton

CONLEE, George D. (1908), Supt., Binghamton Gas Wks., 40 Chenango St., and *for mail*, 185 Washington St.

Brooklyn

ENNIS, Wm. Duane (1908), Prof. Mech. Engrg., Polytech. Inst.

GRAVES, Carleton A. (Affiliate, 1909), Power Engr., Edison Elec. Co., 360 Pearl St.

HOWARD, Chas. Alton (1908), E. W. Bliss Co., Adams and Plymouth Sts., and *for mail*, 519 W. 124th St., New York.

KNIGHT, Geo. Laurence (1908), Designing Engr., Edison Elec. Ill. Co. of Brooklyn, 360 Pearl St., and 1032-A Sterling Pl.

NASH, Lewis H. (1908), Ch. Engr., Natl. Meter Co., 42d St. and 1st Ave., and *for mail*, 248 Gates Ave.

NORRIS, John N. (1908), Asst. Engr., Natl. Meter Co., 4207 First Ave.

ULBRICHT, Tomlinson C. (1908), Instr. Engrg. Dept., Pratt Inst., and *for mail*, 234 Willoughby Ave.

Buffalo

BALLIN, Alfred Edward (1909), Asst. Ch. Engr., Snow Steam Pump Wks., and 188 W. Utica St.

BIERBAUM, Christopher H. (1909), Cons. Engr., V. P., Lumen Bearing Co., Pres., Robson Smelting Co., Pres., Molyneux Mailing Machines Co., 1142 Prudential Bldg., and 80 Fargo Ave.

COLEMAN, Edgar Park (1908), Steam Engr., Lackawanna Steel Co., and 271 Franklin St.

LEHN, Henry Coe (Affiliate, 1908), Draftsman, Snow Steam Pump Wks., and *for mail*, Williamsville.

LUTHER, Stephen G. (1909), Asst. Ch. Draftsman, Gas Eng. Dept., Snow Steam Pump Wks., and *for mail*, 469 Prospect Ave.

Ithaca

CARPENTER, Rolla C. (1909), Prof. Expl. Engrg., Sibley College, Cornell Univ., and 125 Eddy St.

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Mt. Vernon

COWLING, J. T. (Affiliate, 1908), Engr. Elec. Dept., Westchester Lighting Co., 1st St. and 1st Ave., and 308 S. 1st Ave.

New York City

ADDIS, Roscoe D. (Affiliate, 1908), Mgr. Gas Eng. Dept., Jas. Beggs & Co., 109 Liberty St., and *for mail*, Box 24, Haworth, N. J.

ATWATER, Chris G. (1908), Mech. Engr., Room 1314, Whitehall Bldg., 17 Battery Pl., and 285 Lincoln St., Flushing, L. I.

ATWOOD, Geo. D. (1908), Mgr. N. Y. Office, Wheeler Condenser and Engrg Co., West Street Bldg., 90 West St., Pres., Atwood-Rearick Co., 30 Church St.

BAKER, John A. (Affiliate, 1908), Traveling Engr., Power & Mining Mchy. Co., 115 Broadway.

BARKER, John H. (Affiliate, 1908), Salesman, Special Apparatus Dept., Diehl Mfg. Co., 561 Broadway, and *for mail*, 466 E. 7th St., Brooklyn.

BARNABY, Charles W. (1908), 309 Broadway.

BROWN, Ernest C. (Affiliate, 1908), Pres., Rotary Meter Co., Editor, Progressive Age, 280 Broadway.

BUMP, Milan Raynard (Affiliate, 1908), Sec., Doherty Operating Co., 60 Wall St.

CARY, Albert A. (1908), Cons. Mech. Engr., 95 Liberty St.

CHAMBERS, Ralph H. (Affiliate, 1908), Chambers & Hone, Cons. Engrs., 1 Liberty St.

CHAPMAN, W. B. (Affiliate, 1908), Pres., Chapman Engrg. Co., 50 Church St., and *for mail*, 863 E. 18th St., Brooklyn.

COBLEIGH, Henry R. (1908), Mech. Editor, The Iron Age, 14 Park Pl., and 510 E. 8th St., Brooklyn.

COLWELL, James Van V. (1908), 1765 Sedgwick Ave.

COOK, Wm. Pierson, Jr. (Affiliate, 1908), Salesman. Buick Motor Co., 1733 Broadway, and *for mail*, 1111 Dean St., Brooklyn.

CRAWLEY, George E. (1908), Gold & Stock Tel. Co., 68 Broad St., and *for mail*, 557 W. 124th St.

CUDNEY, J. D. (Affiliate, 1908), Mgr., Otto Gas Eng. Wks., 136-138 Liberty St.

DAWLEY, Clarence A. (1908), Cons. Engr., 323 W. 77th St.

DOELLING, Louis Charles (1908), V. P. and Genl. Supt., De La Vergne Mch. Co.. foot E. 138th St., and 26 Colonial Pl., New Rochelle.

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New York City (Continued)

DOHERTY, Henry L. (1908), V. P., and Cons. Engr., Am. Light & Traction Co., Senior Partner, Henry L. Doherty Co., Bankers, 60 Wall St.

DONNELLY, James A. (Affiliate, 1908), Heating Engr., 132 Nassau St.

DONNELLY, Wm. T. (1908), Cons. Engr., Room 1101, 135 Broadway, and *for mail*, 808 E. 18th St., Brooklyn.

FAIR, William J. (Affiliate, 1909), Engr., Murray Hill Hotel.

FISCHER, Wm. Francis (Affiliate, 1909), Engrg. Dept., N. Y. Edison Co., 55 Duane St.

FOGG, Oscar H. (1909), Engr., Dept. of Mains and Services, Consolidated Gas Co. of New York, 4 Irving Pl.

FOOT, A. R. (Affiliate, 1908), Engrg. Salesman, Harrison Safety Boiler Wks., 50 Church St.

GILDERSLEEVE, David Hamilton (1908), V. P. and Sales Mgr., Waters, Gildersleeve, Colver Co., 45 Broadway, and *for mail*, 146 Bement Ave., W. New Brighton.

GOLDINGHAM, Arthur H. (1909), De La Vergne Mch. Co., Foot E. 138th St., and *for mail*, 457 W. 123d St.

GREENE, Harris Ray (1908), Sales Engr., Alberger Condenser Co., 95 Liberty St., and 1406 Chapel St., New Haven, Conn.

HAMILTON, John Wilson (Affiliate, 1908), Hamilton & Chambers, 29 Broadway.

HAYES, Frank A. (Affiliate, 1909), 409 Hartley Hall, Columbia Univ.

HULL, A. B. (Affiliate, 1909), Salesman, Allis-Chalmers Co., 71 Broadway, and 53 Morningside Ave., W.

HUNT, Edward McKinney (Affiliate, 1908), Sales Engr., N. Y. Safety Steam Power Co., 114 Liberty St., and 316 Claremont Ave., Montclair, N. J.

HUSSEY, Wm. Edgerly (1909), Mgr., New York Office, Providence Engrg. Wks., 50 Church St., and 67 W. 92d St.

HUTTON, Frederick R. (1909), Emeritus Prof. Mech. Engrg., Columbia Univ., and 29 W. 39th St., and *for mail*, 257 W. 86th St.

IDELL, Frank E. (1908), Mech. Engr., 50 Church St.

ISHAM, Henry S. (1908), Draftsman, Met. St. Ry. Co., 621 Broadway, and *for mail*, 951 Park Ave.

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New York City (Continued)

JACOB, Fred, Jr. (Affiliate, 1909), Estimating Engr., Fairbanks Co., and *for mail*, 110 Ridgewood Ave., Newark, N. J.

KING, Fred S. (Affiliate, 1908), Mgr. Gas Eng. Dept., Natl. Meter Co., 84-86 Chambers St., and 286 Hancock St., Brooklyn.

KNOTT, Henderson W. (Affiliate, 1908), Asst. to Elec. Engr., N. Y. Edison Co., 55 Duane St.

LANE, J. S. (1908), 50 Church St., and 283 Highland Blvd., Brooklyn.

LANG, Charles (1909), N. Y. Mgr., C. H. Wheeler Mfg. Co., 114 Liberty St., and 348 Jefferson Ave., Brooklyn.

LATHROP, Jay Cowden (Affiliate, 1908), Cons. Engr., 717 Terminal Bldg.

LENT, Leon B. (1908), N. Y. Mgr., Riverside Engine Co., Terminal Bldg., 50 Church St., and Brewster.

LOW, Fred R. (1908), Editor, Power, 505 Pearl St., and 256 Harrison St., Passaic, N. J.

LOZIER, Robert T. (Affiliate, 1908), Engrg. and Elec. Securities Corp., 43-49 Exchange Pl., and Engineers' Club, 32 W. 40th St.

LUCKE, Charles E. (1908), Prof. Mech. Engrg., Columbia Univ., and 544 W. 142d St.

LUCKETT, Gustavus Tyler (Affiliate, 1908), Mgr. Piping Dept., M. W. Kellogg Co., 50 Church St., and *for mail*, 630 E. 22d St., Brooklyn.

LYON, J. Lawrence (1908), Sales Dept., Otto Gas Eng. Wks., 136 Liberty St., and 320 High St., Pawtucket, R. I.

McCLELLAN, Wm. (1908), V. P., Campion McClellan Co., 90 West St., and 12 Winans St., E. Orange, N. J.

MACPHERSON, James Day (1908), Asst. Ch. Engr., Am. Diesel Eng. Co., 11 Broadway, and *for mail*, 301 E. 161st St.

MacVEAGH, George Day (Affiliate, 1908), Engr., Natl. Meter Co., 84 Chambers St., and *for mail*, 681 Lafayette Ave., Brooklyn.

MAIBAUM, Jerome (Affiliate, 1908), Leading Elec. Draftsman, N. Y. Edison Co., 55 Duane St., and 1052 Grant Ave.

MASURY, Alfred Fellows (1909), Mech. Engr., Hewitt Motor-Truck Co., and *for mail*, 44 W. 25th St.

MATTHEWS, Fred E. (1908), Cons. Refrig. Engr., Room 901, 90 West St.

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New York City (Continued)

MAYERS, J. Alex (Affiliate, 1908), Gas Engr., 56 Pine St.

MITKIEWICZ, R. S. de (Affiliate, 1908), Gas Power Salesman, Fairbanks Co., and *for mail*, 214 W. 85th St.

MORLEY, Ralph (1908), Mech. Engr. Transmission Dept., Fairbanks Co., and *for mail*, 563 9th St., Brooklyn.

MORRISON, William S. (Affiliate, 1908), Leading Mech. Draftsman, N. Y. Edison Co., 55 Duane St.

MYERS, Theodore B. (Affiliate, 1909), Gas Eng. Salesman, Otto Gas Eng. Wks., 138 Liberty St.

NILSON, Lars G. (Affiliate, 1908), Cons. Engr., Strang Gas-Elec. Car Co., and Pres., Nilson-Miller Co., 13th and Hudson Sts., Hoboken, N. J., and *for mail*, 108 13th St., Hoboken, N. J.

OBERT, Casin W. (1908), Assoc. Editor, Engineering Record, 239 W. 39th St., and *for mail*, 255 Marlborough Rd., Flatbush, L. I.

O'BRIEN, Thomas (Affiliate, 1909), Mgr., Fulton Motor Car Co., 370 Gerard Ave., and *for mail*, 3217 Decatur Ave.

ORROK, Geo. A. (1908), Mech. Engr., N. Y. Edison Co., 55 Duane St., and 232 E. 17th St., Flatbush.

PAYNE, Nathan B. (1909), Mgr. Gov. Dept., Manning, Maxwell & Moore, 85 Liberty St., and 53 Washington Sq.

PECK, Chas. B. (1908), Mgr., B. F. Sturtevant & Co., 50 Church St., and 284 Halsey St., Brooklyn.

PIERSON, Robert M. (Affiliate, 1909), Pat. Solicitor. 149 Broadway.

POOLE, Cecil P. (Affiliate, 1909), Editor, Power and The Engineer, 505 Pearl St.

PRIDE, George H. (Affiliate, 1908), 277 Broadway.

RAUTENSTRAUCH, Walter (1908), Prof. Mech. Engrg., Columbia Univ.

REARICK, Charles Bemis (1908), V. P. and Genl. Mgr., Atwood-Rearick Co., Hudson Terminal Bldg., 30 Church St., and 239 Central Park, W.

REEVE, Sidney A. (1908), Cons. Engr., Rotary Meter Co., 280 Broadway, and *for mail*, 469 Edgewood Ave., New Haven, Conn.

RICE, Calvin W. (1908), Cons. Engr., Secy., Am. Soc. of M. E., 29 W. 39th St., and 241 N. Mountain Ave., Upper Montclair, N. J.

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New York City (Continued)

RIGHTS, Lewis D. (Affiliate, 1908), Res. Engr. and Mgr., L. F. Shoemaker & Co., 45 Broadway.

ROWLEY, Harry Wm. (1909), Salesman, Allis-Chalmers Co., 71 Broadway, and 253 Garfield Pl., Brooklyn.

SANDELL, Sixten O. (Affiliate, 1908), Draftsman, N. Y. Edison Co., 55 Duane St.

SCHEFFLER, Frederick A. (1909), Babcock & Wilcox Co., 85 Liberty St., and *for mail*, 293 Ridgewood Ave., Glen Ridge, N. J.

SCRIBNER, Charles W. (1908), Mech. Engr., 39 Cortlandt St., and *for mail*, Park Ave., Plainfield, N. J.

SERGEANT, Chas. H. (1908), 611 W. 138th St.

SKEHAN, Eugene A. (Affiliate, 1908), Engrg. Dept., N. Y. Edison Co., 55 Duane St.

SMITH, Bronson H. (Affiliate, 1908), Asst. Engr., Westinghouse, Church, Kerr & Co., and *for mail*, 450 E. 21st St., Brooklyn.

SMITH, Jesse M. (1908), Mech. and Elec. Engr., and Expert in Pat. Causes, Room M-14, 220 Broadway, and 120 Riverside Drive.

SMITH, Stephen C. (Affiliate, 1908), Mgr., Schutte & Koerting Co., 50 Church St., and *for mail*, 65 Fisher Ave., White Plains.

SPARROW, John Porterfield (1909), Ch. Engr., N. Y. Edison Co., 55 Duane St., and 279 E. 16th St., Brooklyn.

STILLMAN, Austin Frank (1908), Watson-Stillman Co., Terminal Bldg., 50 Church St., and Hampton Hall, Cranford, N. J.

STILLMAN, F. H. (1908), Pres., Watson-Stillman Co., and Bridgeport Motor Co., Terminal Bldg., 50 Church St., and 105 Rodney St., Brooklyn.

SUPLEE, Henry Harrison (1908), Mgr., 1897-1900; Pres., Cassier Magazine Co., and Editor, Cassier's Magazine, 12 W. 31st St., and 203 W. 81st St.

SUTER, John (Affiliate, 1909), care of F. P. Thorp, Internatl. Steam Pump Co., 115 Broadway.

SYKES, George (Affiliate, 1908), Engr. and Builder, 1123 Broadway.

TAIT, Godfrey M. S. (1908), Pres., Gas Power Co., 2 Rector St., and 39 Upper Mountain Ave., Montclair, N. J.

THOMAS, Richard H. (Affiliate, 1909), 107 Liberty St.

THORP, Frederick P. (1908), Mgr., Power & Mining Mchy. Co., 115 Broadway, and 233 Brooklyn Ave., Brooklyn.

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New York City (Continued)

TYRON, Frank C. (Affiliate, 1908), 50 Church St., and 545 W. 148th St.

VAN WINKLE, Edward (1908), Cons. Pat. Engr., West St. Bldg., Cedar and West Sts., and The Stuyvesant, 483 Park Pl., Brooklyn.

VOSPER, Samuel C. P. (Affiliate, 1908), Mech. Engr., United Gas Mchy. Co., 114 Liberty St., and 99 Beech St., Arlington, N. J.

WALDO, George E. (Affiliate, 1908), Lawyer, 290 Broadway, and 220 E. 18th St., Brooklyn.

WARMAN, William A. (1909), Supt. and Designer, Keller Mech. Engraving Co., 570 W. Broadway.

WILDER, Clifton W. (1908), Asst. Elec. Engr., Pub. Service Com., 1st Dist., N. Y. State, 154 Nassau St., and *for mail*, 406 E. 21st St., Brooklyn.

WILE, Julius I. (1909), Sales Mgr., Producer Dept., Gas Mchy. Co., 56 Pine St.

WOLFE, Henry Geo. (Affiliate, 1909), Engrg. Dept., N. Y. Edison Co., 55 Duane St., and 65 Berkeley Pl., Brooklyn.

WOOD, Henry Shotwell (1908), Cons. Engr., 1825 Park Row Bldg., and *for mail*, P. O. Box 4, Glen Ridge, N. J.

WOOLSON, Harry Thurber (1908), Ch. Draftsman, Engrg. Dept., Gas Eng. and Power Co., and Chas. L. Seabury & Co., and *for mail*, Lawton St., Lincoln Park, Yonkers.

YOUNG, Nelson J. (Affiliate, 1908), N. Y. Edison Co., 55 Duane St., and 353 56th St., Brooklyn.

Rochester

HOPCROFT, Ernest Bigly (Affiliate, 1908), 511 Insurance Bldg.

PARKER, John Castlereagh (1908), Mech. and Elec. Engr., Rochester Ry. and Light Co.

YAWGER, T. H. (Affiliate, 1908), Supt., Elec. Dept., 34 N. Clinton St.

Schenectady

RUSHMORE, David B. (1908), Engr., Power and Mining Dept., Genl. Elec. Co.

WILKINSON, C. T. (1908), Elec. Engr., Genl. Elec. Co., and State St.

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Syracuse

BARNES, E. Austin (1909), Engr. of Tests, Semet-Solvay Co.

BLAUVELT, Wm. Hutton (1908), Cons. Engr., Semet-Solvay Co., and *for mail*, 1917 W. Genesee St.

COMLY, Geo. N. (1908), 1816 W. Genesee St.

GRIFFIN, Charles Lewis (1908), 2d Asst. Engr., Solvay Process Co., and *for mail*, 207 Summit Ave.

SHEPARD, Geo. H. (1908), Prof. Exper. Engrg. and Mch. Design, College of Applied Science, Syracuse Univ., and *for mail*, 1206 Harrison St.

OHIO

Alliance

BAILY, Thaddeus F. (Affiliate, 1909), Genl. Mgr. and Engr., Baily Eng. Co.

Cincinnati

FAIG, John T. (1908), Prof. Mech. Engrg., Univ. of Cincinnati, and 254 Greendale Ave.

Cleveland

FERNALD, Robert H. (1908), Prof. Mech. Engrg., Case Sch. of Applied Science, Engr. in charge, U. S. Geol. Survey, and 1563 East Blvd.

FOX, John Herbert (1908), Cons. Engr., Frazier & Fox, Rockefeller Bldg., 6104 Hough Ave., N. E.

KENT, Robert Thurston (1908), Engrg. Editor, Iron Trade Review, 2182 E. 9th St., and *for mail*, 1466 E. 116th St.

McMULLIN, Frank V. (1908), Supt., Cleveland City Forge & Iron Co., and *for mail*, 10309 Westchester Ave., N. E.

PARRISH, William H. (1908), Asst. Supt., Natl. Carbon Co., and *for mail*, 1317 W. 114th St.

Columbus

LAWRENCE, Gerald P. (1908), Ohio State Univ., and *for mail*, 449 W. 7th Ave.

MAGRUDER, Wm. T. (1908), Prof. Mech. Engrg., Ohio State Univ., and 342 W. Ninth Ave.

WYER, Samuel S. (1908), Mech. Engr., Harrison Bldg.

Lexington

SMITH, Harry F. (1908), Secy. and Genl. Mgr., Smith Gas Power Co.

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Lima

DOEBLER, Chas. H. (1908), Genl. Mgr., Lima Brake Shoe Co., and 1275 S. Jamison Ave.

Salem

ASLAKSON, Baxter M. (1909), Mech. Engr., Buckeye Engine Co., Lock Box 157.

HUNT, Charles B. (1909), Supt. of Constr., Buckeye Eng. Co., and 636 McKinley Ave.

WEEKS, Chas. H. (1909), V. P., Buckeye Eng. Co., Lock Box 175, and 301 McKinley Ave.

Sandusky

ROBERTS, Edmund W. (1909), Mech. Engr., V. P. and Genl. Mgr., Roberts Motor Co.

Toledo

JEWETT, Edwin Hale (Affiliate, 1908), M. M., The Libbey Glass Co., and *for mail*, 326 Stickney Ave.

KIRK, George E. (1908), Patent Lawyer, Suite 1649, The Nicholas, and 2118 Erie St.

RATHBUN, Edward (1909), 2d V. P., Rathbun-Jones Engrg. Co., Spencer St.

RATHBUN, George Jay (1908), V. P. and Engr., Rathbun-Jones Engrg. Co., and 2447 Collingwood Ave.

PENNSYLVANIA

Braddock

DANKS, Alfred C. (1909), Ch. Engr. of Gas Engines, Edgar Thomson Wks., Carnegie Steel Co., and *for mail*, 331 West St., Wilkinsburg Sta., Pittsburg.

East Pittsburg

BIBBINS, James Rowland (1908), Engr., Westinghouse Mch. Co., and *for mail*, 226 East End Ave., Pittsburg.

DREYFUS, Edwin D. (1908), Westinghouse Mch. Co.

McCLELLAND, E. S. (1909), Asst. Ch. Engr., Westinghouse Mch. Co., and *for mail*, 6837 Thomas Blvd., Pittsburg.

Kittanning

PAUL, John Wallace (1909), Supt., Pittsburg Wtg. Mch. Co.

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GNADE, Edward R. (1908), Mech. Engr., Oil Well Supply Co.

STEEN, Arthur B. (1909), Mgr., Natl. Transit Co. Shops.

Philadelphia

DALLETT, W. P. (1909), Hydr. Engr. and Contr., 49 N. 7th St., and Media.

FISCHER, Ad. Koerting (1908), Pres., Schutte & Koerting Co., 12th and Thompson Sts., and *for mail*, 6904 Wissahickon Ave.

GOEBBELS, Leonard V. (Affiliate, 1908), Mech. Engr., N. E. cor. 33d and Walnut Sts.

HILLER, Joseph Lilburne (1908), Mech. Engr., Penn. Crusher Co., Stephen Girard Bldg.

McNEIL, Merritt Chas. (Affiliate, 1909), Sales, R. D. Wood & Co., and *for mail*, 4834 Walton Ave.

PARKER, John C. (1908), Genl. Mgr., Parker Boiler Co., Penn. Bldg.

WHYTE, Geo. W. (Affiliate, 1908), R. D. Wood & Co., 400 Chestnut St., and *for mail*, 909 Cooper St., Camden, N. J.

WOOD, Edward R., Jr. (1908), Sales Mgr., R. D. Wood & Co., 400 Chestnut St., and *for mail*, 245 S. 17th St.

WOOD, Walter (1908), R. D. Wood & Co., 400 Chestnut St., and 1620 Locust St.

Pittsburg

AMSLER, W. O. (1909), Engr., 749 Wabash Bldg., and 5510 Margaretta St.

SNYDER, William E. (1908), Mech. Engr., Am. Steel & Wire Co., Frick Bldg., and *for mail*, 3624 California Ave., Allegheny.

Reading

HEIZMANN, Lewis J. (1908), Asst. Treas. and Ch. Engr., Penn. Hardware Co., and *for mail*, 318 N. 5th St.

South Bethlehem

COLBY, Albert Ladd (1909), Cons. Engr., and Iron and Steel Metallurgist, 447 Lehigh St.

WEST, Arthur (1909), Mgr. Power Dept., Bethlehem Steel Co., and 114 S. High St., Bethlehem.

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State College

DIEMER, Hugo (1909), Prof. Mech. Engrg., Pa. State College.

WOOD, Arthur J. (1908), Assoc. Prof. Exper. Engrg., Pa. State College, and 222 College Ave.

RHODE ISLAND

Providence

BLISS, Edwin C. (1909), Pres., E. C. Bliss Mfg. Co., and V. P., A. H. Bliss Co., also 91 Sabin St.

BROOKS, J. Ansel (1908), Asst. Prof. Mechanics and Mech. Drawing, Brown Univ.

CONNET, Frederick N. (1908), Sales Mgr., Venturi Meter Dept., Builders Iron Fdy., and 67 Whitmarsh St.

HERSCHEL, Winslow H. (Affiliate, 1909), Cons. Engr., Providence Engrg. Wks., 110 Governor St., East Side Sta.

KENERSON, Wm. Herbert (1908), Assoc. Prof. Mech. Engrg., Brown Univ., and 100 Morris Ave.

ODE, Randolph Theodore (1909), Secy., Providence Engrg. Wks., and 557 Fruit Hill Ave., North Providence.

PHETTEPLACE, Thurston M. (1908), Asst. Prof. Mech. Engrg., Brown Univ., and *for mail*, 1612 Broad St.

VERMONT

Burlington

ROBINSON, Edward (1908), Prof. Mech. Engrg., Univ. of Vt., and *for mail*, 32 Wildwood St., Winchester, Mass.

VIRGINIA

Richmond

CARACRISTI, Virginius Z. (1909), Asst. to Mch. Supervisor, Amer. Loco. Co., and 2205 Hanover Ave.

WASHINGTON

Seattle

GORE, Warren W. (1909), V. P., Gas Power Mfg. Co., and *for mail*, 1610 Main St., Olympia.

LATTA, Nisbet (1908), Cons. Engr.

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WISCONSIN

Beloit

McMULLEN, Vincent E. (1908), Mech. Engr. in charge Exper. Wks., Fairbanks, Morse Mfg. Co., and *for mail*, 810 E. Grand Ave.

MITCHELL, Charles J. (1909), Ch. Draftsman, Fairbanks, Morse Mfg. Co., and *for mail*, 836 College Ave.

Corliss

SARGENT, Chas. E. (1908), Engr., Gas Eng. Dept., Wisconsin Eng. Co., and 843 College Ave., Racine.

Milwaukee

ADAMS, Edward T. (1909), Mgr. and Ch. Engr., Gas End Mill Eng. Dept., Allis-Chalmers Co.

CAHILL, Chas. Adams (Affiliate, 1909), 316 Public Service Bldg.

DAVIDSON, Charles Jackson (1908), Ch. Engr. of P. P., Milwaukee Elec. Ry. and Lt. Co., Gen. Supt., Milwaukee Central Heat Co., and 811 Shephard Ave.

Oshkosh

MONAHAN, Louis J. (Affiliate, 1908), V. P., Supt. and Mech. Engr., Termaat & Monahan Co., 270 Washington St.

FOREIGN COUNTRIES

BELGIUM

Brussels

MATHOT, Rudolphe E. (1908), Cons. Engr. for Gas Engines and Power Plants, 14, Rue de la Braie.

CANADA

Galt, Ontario

GOLDIE, Alexander R. (1908), Mgr., Goldie & McCulloch Co., Ltd.

SPOTTON, Arthur Knowlson (1908), Ch. Engr., Goldie & McCulloch Co., Ltd.

GERMANY

Aachen

LANGER, Paul (1908), Prof. Techn. Hochschule.

MEXICO

Merida, Yucatan

BLAKE, Frederick W. (Affiliate, 1909), Genl. Mgr., United Rys. of Yucatan, and *for mail*, P. O. Box 289.

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STUDENT MEMBERS

BROOKLYN POLYTECHNIC INSTITUTE

Brooklyn, N. Y.

ABREMOVICH, M. (Student, 1909), 196 Vernon Ave.
BOYD, Hugh (Student, 1909), Polytechnic Inst.
BRENDLIN, Wm. H. (Student, 1909), Ft. W. 57th St., New York.
BROWN, Russell C. (Student, 1909), 200 Fifth Ave., New York.
ENNIS, H. V. (Student, 1909), 543 Broadway, Paterson, N. J.
HEWLETT, V. W. (Student, 1909), Woodmere, L. I.
HIGGINS, W. I. (Student, 1909), 183 Berkeley Pl.
LEQUESNE, C. A. (Student, 1909), 779 E. 32d St.
MARTENS, H. A. (Student, 1909), Ft. W. 57th St., New York.
MOORE, W. E. W. (Student, 1909), 456 E. 15th St.
PALMER, Alva L. (Student, 1909), 853 Jefferson Ave.
PRIESTER, Henry (Student, 1909), 1736 Garfield St., New York.
RABENSTEIN, J. A. (Student, 1909), 112 Central Ave., Newark, N. J.
RICHARDSON, F. J. (Student, 1909), 158 Garfield Pl.
RUSSELL, James M. (Student, 1909), 881 E. 15th St.
THOMPSON, Wm. H. (Student, 1909), 51 N. 13th St., Newark, N. J.
UHLYARIK, Julius (Student, 1909), 93 S. 9th St.
VANDEVEER, J. H. (Student, 1909), 263 Hicks St.

CORNELL UNIVERSITY

Ithaca, N. Y.

ALLEN, C. C. (Student, 1909), 222 University Ave.
BECKMAN, H. T. (Student, 1909), Sheldon Court.
BLAIR, G. W. (Student, 1909), 102 West Ave.
BLINN, E. R. (Student, 1909), 103 Highland Pl.
BLISS, H. W. (Student, 1909), 603 E. Seneca St.
BOLGIANO, J. R. (Student, 1909), 507 E. Buffalo St.
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CHILDS, J. N. (Student, 1909), 523 E. Buffalo St.
CHU, P. F. (Student, 1909), 402 College Ave.
CLARK, W. V. A. (Student, 1909), Matawan, N. J.
CLOCK, F. A. (Student, 1909), 205 Eddy St.
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DAUMONT, L. B. (Student, 1909), 116 Lake Ave.
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GARNER, E. F. (Student, 1909), 306 Eddy St.
GOLDSMITH, W. M. (Student, 1909), 4A, Sheldon Court.
GRANT, A. W., Jr. (Student, 1909), 110 Edgemoor Pl.
GREEN, J. B. (Student, 1909), Sheldon Court.
GRIMES, C. E. (Student, 1909), 523 E. Buffalo St.
HANDY, R. H. (Student, 1909), Sheldon Court.
HEYWOOD, F. C. (Student, 1909), 222 Univ. Ave.
HOLLENBERGER, T. J. (Student, 1909), 518 Stewart Ave.
HUMPHREYS, C. S. (Student, 1909), 125 Highland Pl.
ILLMER, G. M. (Student, 1909), 523 E. Buffalo St.
JONAS, M. R. (Student, 1909), 519 E. State St.
KEY, B. Frank (Student, 1909), 111 Lincoln Ave., Edgewood, Swissvale Sta., Pittsburg, Pa.
LAMBERTON, A. M. (Student, 1909), 17 South Ave.
LAWRENCE, J. H. (Student, 1909), 96 Wait Ave.
LEVY, M. S. (Student, 1909), 84 Sheldon Court.
LOCKARD, J. P. (Student, 1909), 105 Catherine St.
McMILLAN, R. D. (Student, 1909), 410 Eddy St.
MEYER, R. C. (Student, 1909), 507 E. Buffalo St.
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PAGE, W. K. (Student, 1909), 116 Osmun St.

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PETERSON, A. G. (Student, 1909), 68A Sheldon Court.
POWERS, A. M. (Student, 1909), 110 Sage Pl.
QUICK, R. L. (Student, 1909), 426 W. Mill St.
RHAME, F. P. (Student, 1909), Hill Crest.
RICHARDSON, L., Jr. (Student, 1909), 117 DeWitt Pl.
RICHEY, A. L. (Student, 1909), 105 Eddy St.
RICKER, C. S. (Student, 1909), 38 Fall Creek Drive.
ROSENSTEIN, L. (Student, 1909), 517 E. Buffalo St.
SAWERS, E. H. (Student, 1909), 212 Stewart Ave.
SCHICKEL, H. H. (Student, 1909), 17 South Ave.
SEE, H. (Student, 1909), 13 South Ave.
SHULTS, L. J. (Student, 1909), Cohocton.
STEWART, A. L. (Student, 1909), 206 Stewart Ave.
SWINNERTON, A. A. (Student, 1909), 806 E. Seneca St.
SYMES, W. H. (Student, 1909), 303 Eddy St.
TIFT, R. H. (Student, 1909), 702 Univ. Ave.
TORRANCE, C. Everett (Student, 1909), 15 Forbes Ave., Northampton, Mass.
TSAI, K. T. (Student, 1909), 228 Linden Ave.
WANG, P. (Student, 1909), 209 College Ave.
WETHERILL, F. B. (Student, 1909), 105 Eddy St.
WHEDBEE, E. (Student, 1909), 402 College Ave.
WHITTY, J. J. (Student, 1909), 429 W. Buffalo St.
WILSON, J. S. (Student, 1909), Cayuga Hgts.
WOODWARD, G. W. (Student, 1909), 306 Stewart Ave.
YOAKUM, F. E., Jr. (Student, 1909), 71 Sheldon Court.

LELAND STANFORD, JR., UNIV.

Stanford Univ., Cal.

BREER, Carl (Student, 1909), 215 S. San Pedro St., Los Angeles.
COONRADT, A. C. (Student, 1909), 61 Whittier Pl., Riverside.
DAUGHERTY, R. L. (Student, 1909), 4903 Wadsworth St., Los. Angeles.
HESS, H. L. (Student, 1909).

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PURDUE UNIVERSITY

Lafayette, Ind.

CARD, R. S. (Student, 1909), 1139 Clarkson St., Denver, Colo.

DUNHAM, Heber (Student, 1909), 817 Park Pl., Brooklyn, N. Y.

HENDERSON, T. V. (Student, 1909), 107 Chauncey Ave., West Lafayette.

STATE AGRICULTURAL COLLEGE OF OREGON

Corvallis, Ore.

BECKER, F. H. (Student, 1909).

CHRISTIANSEN, C. (Student, 1909).

CROWE, E. R. (Student, 1909).

KARSTETTER, J. J. (Student, 1909).

KNOPP, C. L. (Student, 1909).

LUSE, F. D. (Student, 1909).

RODGERS, R. H. (Student, 1909).

SCHOEL, W. A. (Student, 1909).

STREBIN, J. C. (Student, 1909).

STEVENS INSTITUTE OF TECHNOLOGY

Hoboken, N. J.

BACKER, L. H. (Student, 1909), 431 W. 6th St., Plainfield.

BADEAU, R. P. (Student, 1909).

BECK, G., Jr. (Student, 1909), 100 N. Maple Ave., East Orange.

BECKWITH, C. F. (Student, 1909), 106 N. Clinton St., East Orange.

BERGER, J. G. (Student, 1909), 18 Carlton Ave., Jersey City.

BLUM, Joseph K. (Student, 1909), 2 W. 89th St., New York, N. Y.

BRAKMAN, John A. (Student, 1909), 634 W. 158th St., New York, N. Y.

CADY, C. I. (Student, 1909), Walnut Terrace, Bloomfield.

CARR, W. DeL. (Student, 1909), 15 W. 4th St., Bayonne.

CAWLEY, H. (Student, 1909), 91 Broad St., Newark.

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COBB, P. L. (Student, 1909), 38 Schermerhorn St., Brooklyn, N. Y.

COOK, G. C. (Student, 1909), 62 Park Ave., East Orange.

CORT, Arthur T. (Student, 1909), 16 Academy St., South Orange.

CRANE, F. L. (Student, 1909), 227 Rahway Ave., Elizabeth.

CURTIS, J. B. (Student, 1909).

CYNHERS, J. F. (Student, 1909), 168 Dodd St., East Orange.

DORER, O. H. (Student, 1909), 200 Stuyvesant Ave., Irvington.

DRAUDT, C. E. (Student, 1909), 39 Cambridge Pl., Brooklyn, N. Y.

EIDMANN, F. L. (Student, 1909), 80 Danielson St., Union Hill.

FERGUSON, R. E. (Student, 1909), 60 S. Grove St., East Orange.

FITZGERALD, C., Jr., (Student, 1909).

FORTMANN, E. (Student, 1909), 80 Hauxhurst Ave., Weehawken.

FREYGANG, G. G. (Student, 1909), 752 Boulevard Loop, Weehawken.

GREENIDGE, E. T. P. (Student, 1909), 507 River St.

GUNKEL, F. H. (Student, 1909), 158 10th St.

HARRISON, Ward (Student, 1909), 680 Bloomfield Ave., Bloomfield.

HAYNES, H. H. (Student, 1909), 11 W. 94th St., New York, N. Y.

HEARSAY, Winthrop O. (Student, 1909), 81 N. Grove St., East Orange.

HELLER, Alfred (Student, 1909), 185 Sumter Ave., Brooklyn, N. Y.

HENKEL, Charles (Student, 1909), 189 Graham Ave., Paterson.

HIRSCHENSOHN, B. H. (Student, 1909), 322 Park Ave.

HOEXTER, S. J. (Student, 1909), 786 Cauldwell Ave., New York, N. Y.

JACKSON, Lawrence (Student, 1909), 536 Hudson St.

JAPPE, K. W. (Student, 1909), 1042 Lafayette Ave., Brooklyn, N. Y.

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KASSANDER, A. R. (Student, 1909), 1350 Madison Ave., New York, N. Y.

LUDWIG, C. H. (Student, 1909), 804 Castle Point Terrace.

McCARTE, Alexander J. (Student, 1909), 51 Elizabeth Ave., Newark.

MacKAY, C. (Student, 1909), 116 W. 102d St., New York, N. Y.

MESSNER, M. (Student, 1909), 106 W. 8th St., Bayonne.

MOBIUS, Curt E. (Student, 1909).

NYLAND, E. (Student, 1909).

OGDEN, N. (Student, 1909), 216 Summit Ave., Summit.

PEASE, L. M. (Student, 1909), 94 Knickerbocker Rd., Englewood.

PEPER, John H., Jr. (Student, 1909), 364 Lafayette Ave., Brooklyn, N. Y.

PRICE, T. (Student, 1909), 65 Newell Ave., Rutherford.

ROSCOE, A. P. (Student, 1909).

SIERADZKI, A. (Student, 1909), 222 W. 141st St., New York, N. Y.

SIEVERS, E. J. J. (Student, 1909), 65 Willow Ave.

STEWART, Chas. A., Jr. (Student, 1909), 841 Lincoln Pl., Brooklyn, N. Y.

TERWILLIGER, Gerald E. (Student, 1909), 28 Fabyan Pl., Newark.

UPSON, Ralph H. (Student, 1909), 61 Douglas Rd., Glen Ridge.

VENNEMA, A. W. (Student, 1909), 185 Paulison Ave., Passaic.

WARE, John S., Jr. (Student, 1909), 179 William St., East Orange.

WHYTE, A. C. (Student, 1909), Ridgefield Park.

ZEEK, Raymond N. (Student, 1909), 507 River St.

UNIVERSITY OF ILLINOIS

Urbana, Ill.

ALTEKRUSE, I. B. (Student, 1909), 409 W. Main St.

CARNAHAN, O. A. (Student, 1909), Bolivar, N. Y.

COLEMAN, W. F. (Student, 1909), 1613 Parke Ave., Chicago.

COYLE, J. F. (Student, 1909), 1366 Fones Ave., St. Joseph, Mich.

CRAIG, Ollison (Student, 1909), Sullivan.

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CRISTY, H. E. (Student, 1909), 815 Moffet St., Joplin, Mo.
DOLE, I. B. (Student, 1909), 405 E. Daniel St., Champaign.
EVANS, M. E. (Student, 1909), Chebanse.
GROSBERG, A. S. (Student, 1909), 603 E. Stoughton St., Champaign.
GULLEY, L. R. (Student, 1909), 907 Nevada St.
HASKELL, W. M. (Student, 1909), Sterling.
HEISLAR, C. S. (Student, 1909), 308 W. High St.
HERMAN, G. A. (Student, 1909), 909 Rock St., Peru.
HOLCH, R. E. (Student, 1909), Gillman.
HUGHES, W. J. (Student, 1909), 202 E. Green St., Champaign.
JANDA, J. F. (Student, 1909), 650 W. 14th Pl., Chicago.
JEHLE, Ferdinand (Student, 1909), Box 243, Highland.
LURIE, A. N. (Student, 1909), 1303 W. Main St.
McGINNIS, H. D. (Student, 1909), 911 W. Green St.
McLEAN, J. C. (Student, 1909), 505 E. Green St., Champaign.
McMILLAN, E. C. (Student, 1909), Carthage.
MANSFIELD, W. M. (Student, 1909), Y. M. C. A. Hall, Champaign.
NICHOLAS, E. E. (Student, 1909), 2907 Seventh Ave., Rock Island.
PARMELY, J. C. (Student, 1909), 1006 W. Main St.
PEMBERTON, Carlysle (Student, 1909), 608 E. Green St., Champaign.
POE, F. M. (Student, 1909), 908 W. Illinois St.
RUGG, D. M. (Student, 1909), 507 W. University Ave., Champaign.
SCHUSTER, Geo. (Student, 1909), 409 E. Healy St., Champaign.
SPERRY, F. E. (Student, 1909), 905 W. Green St.
WOLF, J. E. (Student, 1909), 409 E. Springfield Ave., Champaign.
WOOD, S. G. (Student, 1909), 706 S. Wright St., Champaign.

UNIVERSITY OF KANSAS

Lawrence, Kan.

BOHNSTENGEL, Walter (Student, 1909), Dodge City.
GARVER, John D. (Student, 1909), 715 Harrison St., Topeka.
SWIGGETT, C. A. (Student, 1909), 814 Alabama St.

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Baker, Chalice W.....216
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Baker, D. G..... 71
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Baker, G. O.....116
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SUMMARY OF MEMBERSHIP

UNITED STATES

Alabama	16	Montana	9
Alaska	1	Nebraska	6
Arizona	5	Nevada	3
Arkansas	2	New Hampshire	13
California	67	New Jersey	191
Colorado	30	New Mexico	2
Connecticut	141	New York	1044
Delaware	18	North Carolina	12
District of Columbia	30	North Dakota	1
Georgia	21	Ohio	268
Hawaii	3	Oklahoma	2
Idaho	1	Oregon	9
Illinois	233	Pennsylvania	436
Indiana	65	Porto Rico	3
Iowa	10	Rhode Island	69
Kansas	10	South Carolina	3
Kentucky	7	Tennessee	12
Louisiana	27	Texas	13
Maine	14	Utah	8
Maryland	31	Vermont	9
Massachusetts	323	Virginia	25
Michigan	102	Washington	14
Minnesota	18	West Virginia	9
Missouri	53	Wisconsin	85

FOREIGN COUNTRIES

Africa	14	Germany	10
Australia	9	Holland	1
Austria	3	India	3
Belgium	5	Italy	1
British W. Indies	1	Japan	9
Canada	43	Mexico	14
China	3	Norway	1
Cuba	5	Russia	3
Central America	6	Scotland	3
England	41	South America	11
Finland	1	Sweden	4
France	8	Switzerland	3

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SUMMARY OF MEMBERSHIP

GEOGRAPHICAL

Resident in Foreign Countries	202
Resident in United States	3474
Present Address Unknown	4
Total	3680

BY GRADES

Honorary Members	15
Members	2466
Associates	386
Juniors	813
Total (*Life Members included*)	3680

SUMMARY OF MEMBERSHIP OF THE GAS POWER SECTION

UNITED STATES

Arkansas	1	Nebraska	1
California	4	New Jersey	15
Connecticut	6	New York	127
Dist. Columbia	3	Ohio	20
Illinois	17	Pennsylvania	23
Indiana	8	Rhode Island	7
Maryland	2	Vermont	1
Massachusetts	17	Virginia	1
Michigan	11	Washington	2
Minnesota	4	Wisconsin	7
Missouri	7		

FOREIGN COUNTRIES

Belgium	1	Germany	1
Canada	2	Mexico	1
Total			289

SUMMARY OF STUDENT MEMBERS

Brooklyn Polytechnic	18
Cornell University	70
Leland Stanford	4
Oregon University	9
Purdue	3
Stevens Institute	55
University of Illinois	28
University of Kansas	3
Total	190

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CALENDAR OF MEETINGS

PLACE	DATE	NO.	CLASS	MEMBERS PRESENT
New York.....	1880		Prel'y.	
Hoboken, N. J.....	1880		Org'n.	
New York.....	1880	1	1st Anl.....	84
Hartford, Conn.....	1881	2	Regular	36
Altoona, Pa.....	1881	3	Regular	37
New York.....	1881	4	2d Anl.....	65
Philadelphia, Pa.....	1882	5	Regular	96
New York.....	1882	6	3d Anl.....	58
Cleveland, O.....	1883	7	Regular	77
New York.....	1883	8	4th Anl.....	131
Pittsburg, Pa.....	1884	9	Regular	93
New York.....	1884	10	5th Anl.....	129
Atlantic City, N. J...	1885	11	Regular	71
Boston, Mass.....	1885	12	6th Anl.....	130
Chicago, Ill.....	1886	13	Regular	121
New York.....	1886	14	7th Anl.....	192
Washington, D. C....	1887	15	Regular	117
Philadelphia, Pa.....	1887	16	8th Anl.....	216
Nashville, Tenn.....	1888	17	Regular	58
Scranton, Pa.....	1888	18	9th Anl.....	124
Erie, Pa.....	1889	19	Regular	83
New York.....	1889	20	10th Anl.....	249
Cincinnati, O.....	1890	21	Regular	164
Richmond, Va.....	1890	22	11th Anl.....	126
Providence, R. I.....	1891	23	Regular	274
New York.....	1891	24	12th Anl.....	298
San Francisco, Cal...	1892	25	Regular	54
New York.....	1892	26	13th Anl.....	294
Chicago, Ill.....	1893	27	Regular	283
New York.....	1893	28	14th Anl.....	268
Montreal, Can.....	1894	29	Regular	133
New York.....	1894	30	15th Anl.....	383
Detroit, Mich.....	1895	31	Regular	132
New York.....	1895	32	16th Anl.....	346
St. Louis, Mo.....	1896	33	Regular	92
New York.....	1896	34	17th Anl.....	391
Hartford, Conn.....	1897	35	Regular	205
New York.....	1897	36	18th Anl.....	378
Niagara Falls, N. Y..	1898	37	Regular	137

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CALENDAR OF MEETINGS—(Continued)

PLACE	DATE	NO.	CLASS	MEMBERS PRESENT
New York.....	1898	38	19th Anl.....	351
Washington, D. C....	1899	39	Regular	274
New York.....	1899	40	20th Anl.....	469
Cincinnati, O.....	1900	41	Regular	144
New York.....	1900	42	21st Anl.....	467
Milwaukee, Wis.....	1901	43	Regular	156
New York.....	1901	44	22d Anl.....	519
Boston, Mass.....	1902	45	Regular	375
New York.....	1902	46	23d Anl.....	474
Saratoga, N. Y.....	1903	47	Regular	315
New York.....	1903	48	24th Anl.....	538
Chicago, Ill.....	1904	49	Regular	350
New York.....	1904	50	25th Anl.....	542
Scranton, Pa.....	1905	51	Regular	121
New York.....	1905	52	26th Anl.....	784
Chattanooga, Tenn...	1906	53	Regular	212
New York.....	1906	54	27th Anl.....	735
Indianapolis, Ind.....	1907	55	Regular	296
New York.....	1907	56	28th Anl.....	699
Detroit, Mich.....	1908	57	Regular	717
New York.....	1908	58	29th Anl.....	738
Washington, D. C....	1909	59	Regular	276

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CALENDAR

October, 1909 to September, 1910

	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Oct.	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	**12**	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	..	..	..	..	..	..
Nov.	..	**1**	2	3	4	5	6
	7	8	**9**	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	..	..	..	..
Dec.	..	..	..	1	2	3	4
	5	6	**7**	**8**	**9**	**10**	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	..
Jan.	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	**11**	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	..	..	..	..	..
Feb.	..	..	1	2	3	4	5
	6	7	**8**	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	..	..	..	..	..
March	.	..	1	2	3	4	5
	6	7	**8**	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	..	..

	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
April	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	**12**	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
May	..	..	..	..	..	..	..
	1	2	3	4	5	6	7
	8	9	**10**	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	..	..	..	..
June	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	..	..
July	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	..	..	..	.	..	..
August	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	..	..	..
Sept.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	..

Heavy faced type indicates dates of meetings of the Society.

Monthly meetings at 8.15 P. M. All meetings here indicated will be held at 29 West 39th Street, New York, except the Spring Meeting, which will be announced later. Date of the Annual Meeting, December 7-10, 1909. Meetings are not held in July, August and September.

There will be a joint meeting of The American Society of Mechanical Engineers and the Institution of Mechanical Engineers (London), in July and August, 1910.

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